UNIVERSITY OF SCRANTON CATALOG 1949-1950

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Scranton
Pennsylvania

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UNIVERSITY CALENDAR

1949

June 30-July 2 ..... Registration for Summer Session
July 5 ..... Summer Session begins
August 15 ..... Feast of the Assumption
August 26 ..... Summer Session ends
September 8-16 ..... Freshman Week
Registration and Orientation
September 14-16 ..... Freshman Retreat
September 13-16 ..... Registration for Upper Classmen
September 19 ..... Classes begin
September 26 ..... Evening Session begins
September 27 ..... Mass of the Holy Ghost
October 17 ..... Student Assembly
November 1 ..... All Saints Day
November 11 ..... End of First Quarter
November 21-23 ..... Annual Retreat
November 24-25 ..... Thanksgiving Holidays
December 8 ..... Feast of the Immaculate Conception
December 21 ..... Christmas Holidays begin

1950

January 2 ..... Classes resume
January 20 ..... End of Second Quarter
January 23 ..... Semestral Examinations
January 27 ..... End of Evening Session
January 30-February 3 ..... Registration Week
February 6 ..... Classes begin
February 6-7 ..... Graduate Record Examinations
February 6 ..... Evening Session begins
February 22 ..... Washington's Birthday
March 31 ..... End of First Quarter
April 4-5 ..... Graduate Record Examination for Seniors
April 5 ..... Easter Holidays begin
April 11 ..... Classes resume
April 26 ..... President's Day
May 18 ..... Ascension Thursday
May 22 ..... Senior Examinations
May 26 ..... End of Second Quarter
May 26 ..... End of Evening Session
May 29 ..... Semestral Examinations
May 29-June 2 ..... Senior Retreat
May 30 ..... Memorial Day
June 2 ..... Alumni Reunion
June 3 ..... Baccalaureate; Class Day Exercises
June 4 ..... Commencement

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General Information

HISTORY

The University of Scranton, the first Catholic institution of higher education in the Northeastern counties of Pennsylvania, was known as the College of Saint Thomas at its foundation in 1888. Under the laws of the State it was chartered on January 12, 1923 to confer Bachelor's and Master's degrees in the Arts and Sciences. Fourteen years later Saint Thomas College became the University of Scranton. In 1942 the University of Scranton became the twenty-fourth college in the United States under the direction of the Society of Jesus.

CAMPUS

One division of the University, comprising three buildings, is situated on Wyoming Avenue near the center of the city. In the main building are located the offices of administration, the library, the auditorium and the biology department. A separate building houses the chemistry laboratories and lecture rooms. La Salle Hall contains the offices of the President, the student chapel and consultation rooms. The other division of the University, adjoining the Scranton Estate, consists of the Liberal Arts building, the Business Administration building and the Physicial Science building. The Scranton Estate, the generous gift of Mr. Worthington Scranton, comprises about five acres of land and a large mansion, which now serves as a residence for the Jesuit faculty. This has been enlarged through the munificent gift of Attorney M. J. Martin, regent and legal adviser of the University, by the gift of six lots adjoining the property on Linden Street. On May 18, 1945, the University acquired title to a tract of eight and a half acres; the gift of Mr. E. P. Dietrick.

SYSTEM OF EDUCATION

The University of Scranton, though a recent member of the international family of Jesuit Colleges and Universities, is old in the tradition and experience of educational values. The educational philosophy of the University of Scranton is that of the famous Ratio Studiorum, whose basic principles and refined methods were first

codified in 1599, thoroughly revised on the basis of experience in 1832 and constantly modified on the same grounds from time to time to meet the changing needs of sound education.

The University of Scranton conceives of its formal education in the Liberal Arts and Sciences as the preparation for and the beginning of a life process by which a man is shaped through controlled but vitally spontaneous experiences to his fulfillment in an enriched, free and social personality. This enriched personality is achieved by participation in the fruits of the collective experience of the past to an extent which will qualify the student, in his turn, to modify for the better some portion of the living human tradition. The free personality is one that is emancipated from the constraints of personal, provincial or national partiality, from psychological maladjustment, and from the graver bondage of what is known on the religious plane as inordinate desire.

The psychological integration of the individual by the harmonious development of his faculties is no mere slogan, but an essential aim of our system; complementary to this inner unification is an integrated attitude. The selection and orientation of the curriculum are determined by this end. This is to say that all subjects should shed converging light on the nature of man, his place in the universe, his destiny under the eternal providence of God. In view of this ideal it is clear that literature, history, philosophy, the social and possibly even the natural sciences should be treated primarily as records of man's aspirations and of his capacity for realizing them.

The experiences referred to as agents of this shaping might be formulated in the order of ascending importance as follows:

a. The acquisition of a sound equipment of knowledge—the mastery of an organically related body of truths pertinent to ends of life.
b. The development of powers of thinking—that is of assimilating and correlating facts and principles in their universal aspect.
c. Contact through his teachers with the ideal of wisdom—the enlightened evaluation of all values—for which the foundation is laid during the years of a student's tutelage and toward which he may hope to advance during all the years of his manhood.

d. Progressive spontaneity of response by the young man's intelligence and free will to the appeal of the greater rather than of the lesser good—in other words fuller enjoyment of the freedom of those who are moved by the divine Spirit—in caritate radicati et fundati.

While the main emphasis in the course of studies is placed upon the acquisition of a broad liberal education the curriculum is sufficiently flexible to admit of an adequate amount of specialization, particularly in the upper levels. After the student's powers of analysis and discernment have been developed, his special talents tested and his reasoning ability sharpened, he is in a position to choose his career wisely and to make more rapid progress in the special studies of his choice. Consequently in his junior and senior years the student is required to elect a special field of concentration in addition to the prescribed courses of study. This selection gives him the opportunity not only to increase his competency in his chosen field but also to fulfill the particular requirements of the professional school he may wish to enter after he has earned his bachelor's degree.

RELIGIOUS TRAINING

No matter how solid and thorough the intellectual training of the student it needs to be supplemented by an equally complete training in religion and morality if education is to fulfill adequately its function of perfecting human nature and thus preparing the student for a fruitful life after leaving college. The more highly trained a man is, the greater his potentialities for good or evil; and conseqeuntly the more important the role of religion with its incomparable power to instruct the conscience and to strengthen the will in the ways of private, social and civic virtue.

One of the phases of religious training at the University consists in formal instruction, given during class periods, that are an integral part of the curriculum. Since religious truths form a body of doctrine that can be taught and studied as exactly and scientifically as other branches of human knowledge, the courses in religion are conducted as regular lecture-courses with recitations and examinations. The courses are so distributed over the four years of college that the entire field of Christian dogma and morals is adequately surveyed.

In addition to the courses in religion, obligatory for all Catholic students, the growth of a spirit of manly piety is encouraged by voluntary participation in various religious devotions and practices. Holy Mass is celebrated in the Chapel; Benediction of the Blessed Sacrament, Devotions to the Sacred Heart and to Our Blessed Lady and other liturgical functions are held at frequent intervals. All Catholic students are expected to receive the Sacraments frequently, weekly and even daily when possible, and to make the exercises of a three day retreat which is held annually.

In the admission of students no discrimination is made on the grounds of religious belief. Students, not of the Catholic faith, are exempted from attending classes in religion and from participating in religious exercises conducted by the University, though they may attend them if they so desire.

STUDENT COUNSELING

To foster the religious development of the students, one of the Fathers of the Faculty is appointed as counselor or adviser of the students. He is in a special sense the friend and adviser of the students not only in religious matters but also in their social duties and in other personal matters as each one may desire.

One of the questions of highest importance to every college graduate is the wise choice of a profession or vocation according to one's character, talents and inclinations, both natural and supernatural. No student with a serious outlook on life will fail to determine well in advance of his graduation, the career which under God's providence seems best suited to assure him success and happiness. In this matter the assistance of the Student Counselor will prove of great value.

THE ADVISORY SYSTEM

In accordance with its policy of keeping the relations of students and faculty on a personal basis the University has organized an extensive advisory system. In accordance with the system ample opportunity is afforded the student for academic counseling, a testing program and conferences with the Committee on Scholarship.

VOCATIONAL GUIDANCE CENTER

The University of Scranton has established a Guidance Center whose offices are located in a separate building at 3 Platt Place. Several well-trained Counselors serve in the testing bureau and devote themselves to counseling the students in their academic and occupational pursuits.

FRESHMAN WEEK

At the beginning of each academic year a special program, known as Freshman Week, is conducted by the University for the purpose of introducing the new students to their studies and college life. During this period each Freshman is required to take a series of aptitude and placement tests in order to enable him and his faculty adviser to select a course of studies in which the student can best achieve his goal.

THE LIBRARY

The Library of the University of Scranton serves the students and the faculty in instructional matters and in research through the existing collection of the main library, located on Wyoming Avenue, and a special collection including many spiritual works housed at the Scranton Estate, 4 Ridge Row. Books from this special collection are available through loan at the main library.

Students have access also to the Scranton Public Library, the Law Library at the Court House and other libraries in the vicinity. Out-of-town students wishing to make use of these resources should consult the University Library.

The staff of well trained Librarians is prepared to give individual and informal instruction, so that any student with a special research problem may receive efficient service. Formal instruction, including several lectures and a problem on the use of the Library, is made a part of the English course given to all Freshmen. These lectures are conducted by the Librarians. It is highly recommended that the students should be aware of the educational and cultural value derived from a thorough acquaintance with the Library collection and tools.

The main Library, located on the third floor of the Main Building, exclusive of Sundays and holidays, is open daily during the week from 8:30 a.m. to 9:45 p.m., and on Saturdays from 9:00 a.m. to 12:00 noon. All alumni and friends of the University of Scranton are welcome to use the Library for reference and borrow books.

BEST SELLERS

The Library of the University of Scranton edits and publishes "Best Sellers", one of the largest book-reviewing services in the country. The purpose of this review is to assist individuals as well as libraries in making an intelligent selection of modern literature. The Reviewing Staff is composed of experts in the various fields of writing and is drawn from more than thirty colleges and universities in the country.

OUT-OF-TOWN STUDENTS

Although the University of Scranton is not a boarding school, and, therefore, provides no dormitory accommodations on the campus, a number of private homes, furnishing board and lodging at a reasonable rate, are available in the main residential district a few minutes walk from the University.

INSTITUTE OF INDUSTRIAL RELATIONS

On October 19, 1943, in Hazleton, Pa., the University of Scranton opened the first unit of its Institute of Industrial Relations. It was called Hazleton Labor College. Since then two other divisions have been added to the Institute viz.: the Shenandoah Institute of Industrial Relations in Shenandoah, Pa., which was inaugurated on March 15, 1945; and the Scranton Institute of Industrial Relations, which held its first assembly on May 2, 1945.

It is the purpose of all of the divisions of the Institute to provide opportunity for both employees and employers to acquire a sound philosophy in industrial relations, an acquaintance with the methodology of Social Science, a knowledge of the provisions of labor legislation and skill in written and vocal expression. It is hoped that by spreading a better understanding of the underlying principles and factual data of industrial relations, the groundwork will be laid for enduring industrial peace.

The instruction is conducted each year through two semesters of ten weeks each. The classes meet for two hours on two evenings each week.

The curriculum for each semester includes a course in each of four fields: Social Philosophy, Social and Economic Science, Labor Law and Legislation, and English. The courses are so arranged as to constitute an independent unit each semester and are conducted through a cycle of four years.

Lecturers include members of the regular faculty of the University, and specially engaged experts in specific fields. The regular courses are supplemented by occasional lectures by members of the staffs of various departments of the Federal Government, of the Commonwealth of Pennsylvania and of labor and employer organizations.

The student body includes international and district officers and board members of labor organizations, officials and committee members and rank and file members of locals; foremen, superintendents, personnel directors and professional persons.

General Regulations

Students obviously enter the University with the sincere and earnest purpose of obtaining all the benefits of a college education. To enable them to do so, to secure the order necessary for the effectual pursuit of studies, to develop and strengthen character, and to promote gentlemanly deportment and polite manners, the University has drawn up certain rules and regulations governing student life. While the observance of these regulations is largely a matter of student morale, they are enforced unflinchingly whenever necessary. Matters of discipline are supervised by the Dean of Men.

While the University cannot be held responsible for the conduct of students outside the premises, unbecoming conduct either on or off the campus as well as insubordination, continued inapplication to studies or irregularity in attendance will constitute grounds for dismissal from the University. In general both within and outside the University students are expected to manifest the respect for order, morality, personal honor and the rights of others, which is the hallmark of a gentleman and the duty of a good citizen. The Administration reserves the right to dismiss a student at any time without any definite charge, if in its opinion he fails to use profitably the opportunities offered him at the University or to conduct himself according to its standards.

ATTENDANCE

The University considers regular attendance at all classes one of the most important obligations of the student. Every student is required to attend all the scheduled exercises of his class. A limited number of absences for grave and legitimate reasons is permitted. However, if a student is absent from more than ten per cent, but less than fifteen per cent of his classes, he will incur a conditional failure in the subject. If he is absent from fifteen per cent of the classes he will incur an absolute failure in the course. Each student should keep an account of his absences from class; failure to do so will not excuse him from the above penalties. When a student has been absent for a prolonged period, because of illness or some equally compelling reason, the application of this rule may be modi-

fied upon the recommendation of the Committee on Academic Standards.

Not only must attendance at class be regular but it must also be punctual. Late-comers will not be admitted to class and will be recorded with an absence.

EXAMINATIONS AND GRADES

Grades are ascertained quarterly from the professors. Twice each semester in each course there is given a mark made up on the basis of the student's homework, recitation in class and tests.

At the close of each semester comprehensive written examinations in each subject are held covering all the matter studied during the semester; supplementary oral examinations may also be required. To be eligible to take a semester examination, a student must have attained an average of "D" in the combination of the two quarterly marks and must not have exceeded the limit of absences. Unexcused absence from a semester examination counts as a condition.

The semester's average is obtained by adding together the marks for the two quarters and the mark for the semester examination, and dividing by three. To secure credit for a subject, not only the semester average, but also the mark in the examination must be at least "D".

The system of grading in use is based on the letters A, B, C, D, E, F. These letters are evaluated according to the following scale:

A—93-100—Excellent .....3 quality points for each credit hour
B—85- 92—Good .....2 quality points for each credit hour
C—77- 84—Fair .....1 quality point for each credit hour
D—70- 76—Passing .....0 quality point for each credit hour
E—60- 69—Condition
F—Below 60—Failure

QUALITY OF WORK

During the four-year course a student must earn at least a total of one hundred and thirty-two quality points. A grade average of "C", or a quality point index of 1.0, is required for graduation.

The quality index of a student is determined by dividing the total number of quality points earned by the total number of earned credits.

HONOR STUDENTS

To be eligible for honors a student must carry the full program of his class. All semester hours in which a student receives a grade are counted in the determination of honors. In order to be listed as honor students a grade of "B" or higher must be earned in each subject.

DEFICIENCIES

Any grade between 60 and 69 will constitute a condition. A condition is also incurred by not passing a semester examination. A student whose quarterly marks in any subject average between 60-70 percent is permitted to take a condition examination. Likewise, a student who has been debarred from the semester examination because of absences, and whose quarterly marks average 60 percent, is permitted to take a condition examination.

A condition examination will be given in each subject after the regular semester examinations. The highest mark to be attained in such an examination is "D". The fee for any condition examination is $5.00. If a student fails to pass any condition examination or absents himself without permission from such an examination, he automatically incurs an absolute failure.

A student whose quarterly grades in any subject average below 60 incurs an absolute failure. Such failures are removed only by repeating the subject in regular course. The highest grade which may be earned by repetition of such course is "C". A course may be repeated but once.

No student will be classified as a Senior who has not removed all deficiencies or who has not earned the necessary number of quality points. Any member of the Senior Class who incurs one failure or two conditions shall cease to be a candidate for a degree at the next commencement.

A student who has accumulated three failures at the end of a semester shall be dismissed.

INCOMPLETE COURSES

If a course has not been completed because of illness or some other serious reason, approved on the recommendation of the Com-

mittee on Academic Standards, the course will be marked "I" (Incomplete).

VOLUNTARY WITHDRAWAL

A student who withdraws voluntarily from the University is entitled to honorable dismissal if he is in good standing and all financial indebtedness settled. Students who intend to withdraw from the University should notify the Registrar of their intention to do so.

STUDENT EXPENSES

Unless it is explicitly stated otherwise tuition and fees are for one semester and are payable on registration. Approval for deferred payments must be secured from the Treasurer before registration: a fee of $5.00 per semester is charged for the service. Deferred payments are made by paying $100.00 at the beginning of the semester and the balance in payments due the first of two following months.

TUITION

Tuition per semester is $200.00. This tuition permits a student to carry the number of credit hours as indicated for his course in pages 37 to 48 of this catalogue. Extra credit hours are chargeable at the rate of $12.00 per semester per credit. Students whose combined number of credit hours is 10 or more in any session or combination of sessions shall be charged full tuition and fees. A student carrying less than 10 credit hours will be charged $12.00 a credit hour and a $5.00 registration fee.

REFUNDS

No refund will be made for absence, withdrawal or dismissal after the first two weeks of any semester. However to obtain a refund, within the two week period, the notice of withdrawal must be reported immediately in writing to the Treasurer. This regulation does not apply to students who are called for military service. For such students a pro rata refund will be made in accordance with their actual attendance.

SPECIAL REGULATIONS

No student will be permitted to take semester examinations until all his bills for the current semester have been paid. No student

shall be permitted to receive any degree, certificate or transcript of record, until his financial accounts with the University have been satisfactorily settled. Students are responsible for all breakage in the laboratories.

SUMMARY

Tuition per semester	$200.00
University fees per semester	25.00
Laboratory fee for each science course per semester	10.00
Business laboratory fee per semester	5.00
Registration fee per semester	5.00
Engineering laboratory fee per semester	1.00
Graduate record examination	3.25
American Institute of Accountants Exam	7.00
Examination material	.75
Matriculation fee, payable once	5.00
Deferred payment fee	5.00
Late registration fee	5.00
Extra courses, per semester credit	12.00
Transcript of record	2.00
Condition examination fee, each subject	5.00
Graduation	30.00
Estimated cost of books per year	40.00 to 75.00

REQUIREMENTS FOR ADMISSION

The administration of the requirements for admission to the University of Scranton is in the hands of the Chairman of the Board of Admissions: The executive details are administered by the Registrar, who will furnish application blanks and information to prospective candidates, parents and secondary school principals. It will be to the candidates advantage to make formal application early in the final year of his secondary school studies. At the very latest application should be made at least two months before the start of the semester.

In the acceptance of candidates final decision rests with the Board of Admissions. Candidates are advised that in determining the admission status of an applicant the Board will consider not only the credits and mental proficiency of the candidate but also such factors as character, personality and good citizenship.

All applicants will be required to submit to a battery of tests to be used by the Board of Admissions in evaluating their mental qualifications for the course of study for which they are applying. The scores earned in these tests and the relative standing in the applicant's high school class will be principal factors used in determining his acceptance for admission to the University.

SCHOLASTIC CREDENTIALS

Candidates for admission to the freshman class must present: first, a certificate of graduation from a senior high school accredited by the State Department of Education of Pennsylvania or by the Association of Colleges and Secondary Schools of the Middle States; and, secondly, a detailed record of their high school work. This record must represent either sixteen units distributed over four full years, if the applicant comes from a four-year high school, or twelve units, if he comes from a senior high school. Each unit represents the study of a high school subject for the duration of a school year of at least thirty-six weeks, on a basis of four to five recitation periods a week. These units must cover the prescribed subjects which are listed below as requirements for admission to the various curricula.

ADVANCED STANDING

The institution honors credits toward advanced standing from other colleges, provided a grade of "C" or its equivalent is presented. No one, however, will be admitted to a standing higher than that represented by a completion of the junior year. To be eligible for a degree, a year of residence is required. Students entering from other institutions shall be required to make up the prescribed subjects of study in the course which they choose to pursue.

The candidate must present a letter of honorable dismissal and a certificate signed by the proper college authority, showing the subjects studied, the number of semester hours given to each subject, and the grade attained. In case the character of a student's work in any subject is such as to create doubt as to the quality of that which preceded, the University explicitly reserves the right to revoke any credit assigned on credentials and to exact examination in the same subject.

UNIT REQUIREMENTS FOR ADMISSION

To enroll in any one of the several courses offered in the curriculum a total of sixteen high school units must be presented. The term, "unit", is understood to represent a course of from four to five hours weekly throughout an academic year of secondary school. Candidates for admission may submit entrance units in the following subjects:

American History	1	Italian	2
Ancient History	1	Spanish	2
Mediaeval History	1	Algebra	2
Modern History	1	Commercial Mathematics	1
Civics	1	Plane Geometry	1
Economics	1	Solid Geometry	1
Problems of Democracy	1	Trigonometry	1
Social Science	1	Mechanical Drawing	1
English	4	Business Subjects	2
Greek	3	General Science	1
Latin	4	Biology	1
French	2	Chemistry	1
German	2	Physics	1

COURSE REQUIREMENTS

Of the total of sixteen units, required for admission, a specified number must be offered in prescribed subjects, which vary from course to course. The following tables summarize the required and elective units to be offered by candidates for the various degrees:

BACHELOR OF ARTS

Algebra	1
English	4
History	1
Latin	2 to 4
*Modern Language	2
Plane Geometry	1
Science	1
Other Subjects	2 to 4
	16

Bachelor of Science

(Pre-Medical; Pre-Dental; Science Major)

Algebra	1
English	4
History	1
Modern Language	2
Plane Geometry	1
Science	1
Other Subjects	6
	16

Bachelor of Science

(Education; History; Social Science)

Algebra	1
English	4
History	1
*Modern Language	2
Plane Geometry	1
Science	1
Other Subjects	6
	16

Bachelor of Science

(Major: Business Administration)

Mathematics	2
English	4
History	1
*Modern Language	2
Science	1
Other Subjects	6
	16

PRE-ENGINEERING

Algebra	2
English	4
History	1
Plane Geometry	1
Science	1
Other Subjects	7
	16

* Candidates without secondary school credit in a modern foreign language must register in one of the elementary courses and continue their study of the language during Sophomore Year. At the end of Sophomore Year a comprehensive examination will be given. Those who fail to satisfy the reading requirements must continue their study of the language for another year.

Students with two or more years of high-school preparation in a modern foreign language will continue their study of the same language at a level determined by their standing in the entrance placement test.

German is the prescribed language for candidates for the Bachelor of Science Degree in Chemistry and Physics. Students planning post-graduate work on attaining the Bachelor's Degree are advised that French and German are the languages usually required of candidates for advanced degrees.

College Degrees

The College of Arts and Sciences at the University of Scranton awards two academic degrees, Bachelor of Arts and Bachelor of Science. The various courses of study are arranged in two main groups, each one leading to one of these degrees. Within the Bachelor of Arts group two sets of courses are to be found, one leading to a Bachelor of Arts degree with honors, the other to an unqualified Bachelor of Arts degree. Within the Bachelor of Science group various subdivisions are found depending on whether the student is majoring in Accounting, Biology, Business Administration, Chemistry, Mathematics, Physics, Education, History or Social Sciences.

BACHELOR OF ARTS HONORS DEGREE

The course of studies terminating in a Bachelor of Arts degree with honors is reserved to students who in the judgment of the University authorities are endowed with more than ordinary talent and are capable of the intensive work which the course requires.

All students in this course are required to take the courses in Latin and Greek literature. A minimum of two years of college Greek will be required of students who have made preliminary studies in this language during two or three years of high school. For those entering without these preliminary studies in Greek there will be an intensive course of three years' duration.

To be qualified for this degree a student must earn an average of eighty or higher in his major courses and an average of seventy-five in his minor courses. Each student will be expected to do original and intensive work in the field he elects for special study in his Junior and Senior years. Grades are determined on the basis of class recitations, class tests, quarterly examinations and semester comprehensive examinations. The scholastic success of the student is noted in his degree by the distinction of honors, honors *cum laude*, honors *magna cum laude* and honors *summa cum laude*. Students who fail to attain these grades may be recommended for a degree without honors.

BACHELOR OF ARTS DEGREE

The requirements for the degree are similar to those of the A.B. honors degree with the exception that the courses in Greek are not required. This course is built upon the same unity of literature and philosophy and joins breadth of culture with adequate specialization.

BACHELOR OF SCIENCE DEGREE

The courses which lead to the degree of Bachelor of Science fall into three general groups. The pure science courses are designed for students who wish to major in the fields of Biology, Chemistry, Physics or Mathematics or who wish to fulfill the requirements for entrance into medical or dental school. The second group of courses enables the student, lacking in prerequisites for the Arts course, to major in the fields of Education, History or the Social Sciences.

The third group of courses leads to the degree of Bachelor of Science in Business Administration with a major in Accounting or General Business. In all these courses certain general cultural subjects such as English and Philosophy are prescribed.

These fields of study afford a student who has not completed the prerequisites for the A.B. course in high school an opportunity to pursue a course of study which will fit him for graduate work in law, education, business or government.

PRACTICE TEACHING

The Committee on Academic Standards, which passes on the eligibility of each and every student who applies for teacher training courses, shall determine whether the candidate has any physical, psychological or intellectual handicap which might militate against his proficiency in the profession.

Practice teaching will be arranged for students who meet course requirements and who prove they have the other necessary qualifications. The qualifications are as follows:

(1) An academic record of better than "C" in two subject-matter sequences required for secondary school teaching.

(2) A recommendation from the two subject-matter department heads concerned.

(3) An academic record of better than "C" in the necessary professional Education courses.

(4) Evidence of good physical and personality adjustment.

(5) Satisfactory standard of both written and oral English as certified to by the English and Education Departments. Tests may be administered to determine fitness in this regard.

Practice Teaching and Observation will be offered during the second semester of each academic year. Students will register for Practice Teaching and Observation only after application for placement as practice teachers has been approved by the departments concerned, as indicated above.

Application forms will be distributed by the Education and Psychology Department and are to be returned to this Department in duplicate before the beginning of Christmas vacation.

DEGREE REQUIREMENTS

To receive the College degree a student is required to complete successfully all prescribed courses as well as an amount of work equivalent to at least one hundred and thirty-two credits. A credit or semester hour represents one hour a week for one semester except when a class period is conducted in the style of a conference or seminar, in which case fewer credits are granted. Two or more hours of laboratory work are counted as the equivalent of one lecture period.

PRESCRIBED COURSES

Certain courses are prescribed for all the curricula leading to the bachelor's degree. These include the Freshman and Sophomore courses in English, Modern Language and Mathematics and the sequence of philosophy courses comprising Logic, Epistemology, Cosmology, Metaphysics, Ethics, Psychology and Natural Theology. Moreover in all the curricula at least one year of History and, excepting Business Administration, one year of either Chemistry, Biology, or Physics is required. In addition in each of the various curricula certain courses are prescribed as necessary for the minimum requirement for the particular degree awarded upon successful completion

of the curriculum. These prescribed courses are outlined in detail in the summaries contained in the following pages. Catholic students are also required to pursue a prescribed course in Religion in each of the four years; non-Catholic students must take an equivalent number of elective credits to substitute for the eight credits in Religion.

FIELD OF CONCENTRATION

Before the close of his sophomore year each student with the assistance of his faculty advisor and the approval of the Dean must determine his major elective or field of concentration for the ensuing two years. The field of concentration for students who wish to major in science or to prepare for medical school is normally determined by the course they choose upon entering Freshman year.

In determining the major elective the decisive factor is not the student's desires, but his prospective vocation in life. Consequently what is elective with the student is not so much his studies, especially in details, but rather the career which he wishes to follow. In all cases it is clearly understood that, no matter what a student's major may be, he is still obliged to follow the prescribed courses of philosophy in Junior and Senior years.

To major a student must present a minimum of 21 semester hours in the same field, with 12 semester hours in cognate subjects.

The departments of study in which the field of concentration is to be chosen are:

Accounting
Business Administration
Biology
Chemistry
Classical Languages
Education and Psychology
English
History
Pre-Legal Studies
Mathematics
Philosophy
Physics
Romance Languages
Social Sciences

The cognate subjects will be so ordered at the time of graduation that the student will be well equipped to take graduate studies in his chosen field. No recommendation for graduate studies will be given to any student who does not maintain a better than "C" average in his major field.

HONORS

The degree of Bachelor of Arts or of Bachelor of Science shall be conferred with distinction under the following rules: Students who have completed a minimum of one hundred hours in the University of Scranton are eligible for general honors. Those who earn an average of at least two and one-half quality points a semester hour are recommended for a degree magna cum laude. Those who earn an average of three quality points a semester hour are recommended for a degree of summa cum laude.

MAJOR CONCENTRATION GROUPS

GROUP I: BIOLOGY

Comparative Anatomy
Embryology
Histology
Genetics
Bacteriology
Physiology
Microtechnique

GROUP II: BUSINESS ADMINISTRATION

Accounting
Cost Accounting
Auditing
Taxation
Accounting Systems
C.P.A. Problems
Machine Accounting

Finance
Money and Banking
Corporation Finance
Investments
Insurance
The Money Markets
Investment Banking
Public Finance
Credits and Collections

Marketing
Marketing
Advertising
Retailing
Salesmanship
Retail Store Management

Management
Industrial Management
Production Management
Factory Management
Personnel Management
Traffic Management
Office Management
Real Estate Management

GROUP III: CHEMISTRY

Qualitative Analysis
Quantitative Analysis
Organic Chemistry
Advanced Quantitative Analysis
Physical Chemistry
Qualitative Organic Analysis
Physiological Chemistry

GROUP IV: CLASSICS

Latin
Cicero
Tacitus
Patristic Latin
Lyric Poets
Latin Comedy

Greek
Homer
Plato's Republic
Aristotle
New Testament Greek

GROUP V: EDUCATION

Introduction to Education
History of Education
Educational Psychology
Principles and Techniques of High School Teaching
Tests and Measurements
Observation and Practice Teaching

GROUP VI: ENGLISH

Literature and Culture
Shakespeare
Neo-Classical Literature
Romantic Literature
History of English Novel
American Literature
Modern Drama
Creative Writing
Journalism

MAJOR CONCENTRATION GROUPS

Group VII: History

American History
- American Civilization
- American Political Thought
- The U. S., 20th Century
- Diplomatic History
- Political Parties
- Pennsylvania History
- The Western Hemisphere
- Co-ordinating Seminar

Western European
- Western European Civilization
- European Political Thought
- Constitutional and Legal History of England
- The Contemporary World
- French Revolt and Napoleon
- Nineteenth Century Europe
- Co-ordinating Seminar

Ancient, Medieval, Far Eastern
- Ancient History
- Medieval History
- Renaissance and Reformation
- The Far Eastern People

Group VIII: Mathematics
- Differential Equations
- Vector Analysis
- Advanced Differential Equations
- Statistical Analysis
- History of Mathematics
- Advanced Calculus

Group IX: Modern Languages

French
- The French Novel
- Advanced Composition
- The Classical Period
- Modern Theater
- French Conversation
- The Catholic Revival
- Modern Poetry

Spanish
- The Golden Age
- The Modern Novel
- Advanced Composition
- Spanish Conversation

Group X: Physics
- Light and Optics
- Heat and Thermodynamics
- Mechanics
- Electricity and Magnetism
- Modern Physics
- Advanced Physics Laboratory
- Radio Tubes and Circuits
- Sound

Group XI: Psychology
- General Psychology
- Rational Psychology
- Educational Psychology
- Developmental Psychology
- Psychological Testing
- Mental Hygiene
- Abnormal Psychology
- Statistics in Education and Psychology

Group XII: Social Sciences

Economics
- Principles of Economics
- Economic Geography
- Economic History
- Statistics
- Money and Banking
- Labor Problems
- Current Economic Problems

Political Science
- American Government
- History of American Political Thought

MAJOR CONCENTRATION GROUPS

Political Science—(Continued)
- American Constitutional and Legal History
- American Foreign Relations
- American Political Parties
- Local Government
- Public Administration
- European Political Thought
- English Constitutional and Legal History
- Political Science

Sociology
- The Family
- Social Origins
- Community Organization
- Child Welfare
- Sociological Theory
- Communist, Fascist and Democratic Societies
- Labor Problems
- Criminology
- The Field of Social Work

COURSES REQUIRED FOR DEGREES

BACHELOR OF ARTS HONORS

Freshman I

	Credits
English 1	3
*Greek 4	4
†Latin 22	4
Mathematics 5	4
Modern Language 21	3
Public Speaking 3	1
Religion 1	1
	20

Freshman II

	Credits
English 2	3
*Greek 21	4
†Latin 21	4
Mathematics 6	4
Modern Language 22	3
Public Speaking 4	1
Religion 2	1
	20

Sophomore I

	Credits
English 21	3
*Greek 22	4
†Latin 31	4
History 1	3
Social Science 21	3
Religion 21	1
	18

Sophomore II

	Credits
English 22	3
*Greek 23	4
†Latin 32	4
History 2	3
Philosophy 22-23	5
Religion 22	1
	20

Junior I

	Credits
Biology 1	4
Philosophy 53-54-55	5
Religion 51	1
Social Science 23	3
Electives (Classics)	6
	19

Junior II

	Credits
Biology 2	4
Philosophy 60	4
Religion 52	1
Social Science 24	3
Electives (Classics)	6
	18

Senior I

	Credits
Philosophy 56	4
Physics 1	4
Philosophy 61	4
Religion 61	1
Electives (Classics)	6
	19

Senior II

	Credits
Philosophy 57	4
Physics 2	4
Religion 62	1
Electives (Classics)	6
	15

*For those who enter the Freshman Class without any secondary school preparation in Greek and who desire to enroll in the Bachelor of Arts Honor Course, courses in Elementary Greek are offered. For such students the Bachelor of Arts Honors Course offers Gerek 1, Greek 2, Greek 3, Greek 4 over a four semester program. No credit is given for any course in this program unless the student has successfully completed all four semester courses.

†In each of these courses, one period a week will be devoted to Latin Prose Composition.

BACHELOR OF ARTS

Pre-Legal

FRESHMAN I

	Credits
English 1	3
History 1	3
†Latin 1	0
Mathematics 5	4
Modern Language 1	3
Public Speaking 3	1
Religion 1	1
	15

FRESHMAN II

	Credits
English 2	3
History 2	3
†Latin 2	0
Mathematics 6	4
Modern Language 2	3
Public Speaking 4	1
Religion 2	1
	15

SOPHOMORE I

	Credits
English 21	3
History 3	3
†Latin 22	4
Modern Language 21	3
Social Science 21	3
Religion 21	1
	17

SOPHOMORE II

	Credits
English 22	3
History 4	3
†Latin 21	4
Modern Language 22	3
Philosophy 22-23	5
Religion 22	1
	19

JUNIOR I

	Credits
Biology 1	4
Philosophy 53-54-55	5
†Latin 31	4
Religion 51	1
Social Science 23	3
Electives	3
	20

JUNIOR II

	Credits
Biology 2	4
Philosophy 60	4
†Latin 32	4
Religion 52	1
Social Science 24	3
Electives	3
	19

SENIOR I

	Credits
Philosophy 56	4
Physics 1	4
Philosophy 61	4
Religion 61	1
Electives (Social Science)	6
	19

SENIOR II

	Credits
Philosophy 57	4
Physics 2	4
Religion 62	1
Electives	6
	15

†Students pursuing a Bachelor of Arts Pre-Legal course who attain a passing grade in the Latin placement examination will be permitted to follow the Latin course as prescribed for the Bachelor of Arts Honors Course. (See preceding page.)

BACHELOR OF SCIENCE

Major in Biology - Pre-Medical Sciences

Freshman I

	Credits
Biology 1	4
Chemistry 1	5
English 1	3
Mathematics 5	4
Modern Language 1	3
Public Speaking 3	1
Religion 1	1
	21

Freshman II

	Credits
Biology 2	4
Chemistry 2	5
English 2	3
Mathematics 6	4
Modern Language 2	3
Public Speaking 4	1
Religion 2	1
	21

Sophomore I

	Credits
Biology 21	4
Chemistry 22	4
English 21	3
Biology 55	4
Modern Language 21	3
Religion 21	1
	19

Sophomore II

	Credits
Biology 22	4
Chemistry 21	4
English 22	3
Modern Language 22	3
Philosophy 22-23	5
Religion 22	1
	20

Junior I

	Credits
Biology 52	4
Chemistry 51	5
Philosophy 53-54-55	5
Physics 1	4
Religion 51	1
	19

Junior II

	Credits
Biology 54	4
Chemistry 52	5
Philosophy 60	4
Physics 2	4
Religion 52	1
	18

Senior I

	Credits
Biology 56	4
Chemistry 53	3
History 1	3
Philosophy 56	4
Philosophy 61	4
Religion 61	1
	19

Senior II

	Credits
Biology 57	4
Chemistry 54	3
History 2	3
Philosophy 57	4
Religion 62	1
	15

PRE-DENTAL COURSE

FRESHMAN I

	Credits
Biology 1	4
Chemistry 1	5
English 1	3
Mathematics 5	4
Modern Language 1	3
Public Speaking 3	1
Religion 1	1
	21

FRESHMAN II

	Credits
Biology 2	4
Chemistry 2	5
English 2	3
Mathematics 6	4
Modern Language 2	3
Public Speaking 4	1
Religion 2	1
	21

SOPHOMORE I

	Credits
Biology 21	4
Chemistry 51	5
English 21	3
Modern Language 21	3
Physics 1	4
Religion 21	1
	20

SOPHOMORE II

	Credits
Biology 22	4
Chemistry 52	5
English 22	3
Modern Language 22	3
Physics 2	4
Religion 22	1
	20

BACHELOR OF SCIENCE
in Business Administration

Majoring in Accounting

Freshman I

	Credits
Business 1	4
Business 3	3
Business 5	3
English 1	3
Modern Language 1	3
Public Speaking 3	1
Religion 1	1
	18

Freshman II

	Credits
Business 2	4
Business 4	3
Business 6	3
English 2	3
Modern Language 2	3
Public Speaking 4	1
Religion 2	1
	18

Sophomore I

	Credits
Business 21	4
Business 25	3
Social Science 23	3
Business 29	2
English 21	3
Modern Language 21	3
Religion 21	1
	19

Sophomore II

	Credits
Business 22	4
Business 26	3
Social Science 24	3
Modern Language 22	3
Philosophy 22-23	5
Religion 22	1
	19

Junior I

	Credits
Business 51	3
Business 57	3
Business 59	3
History 1	3
Philosophy 53-54	5
Religion 51	1
	18

Junior II

	Credits
Business 52	3
Business 58	3
Business 60	3
History 2	3
Philosophy 60	4
Religion 52	1
	17

Senior I

	Credits
Business 53	3
Business 54	3
Business 61	4
Philosophy 56	4
Philosophy 61	4
Religion 61	1
	19

Senior II

	Credits
Business 53A	3
Business 54A	3
Business 55 or 56	3
English 22	3
Philosophy 57	4
Religion 62	1
	17

BACHELOR OF SCIENCE
IN BUSINESS ADMINISTRATION

Majoring in General Business

FRESHMAN I

	Credits
Business 1	4
Business 3	3
Business 5	3
English 1	3
Modern Language 1	3
Public Speaking 3	1
Religion 1	1
	18

FRESHMAN II

	Credits
Business 2	4
Business 4	3
Business 6	3
English 2	3
Modern Language 2	3
Public Speaking 4	1
Religion 2	1
	18

SOPHOMORE I

	Credits
Business 21	4
Business 25	3
Social Science 23	3
Business 29	2
English 21	3
Modern Language 21	3
Religion 21	1
	19

SOPHOMORE II

	Credits
Business 22	4
Business 26	3
Social Science 24	3
Modern Language 22	3
Philosophy 22-23	5
Religion 22	1
	19

JUNIOR I

	Credits
Business 57	3
Business 59	3
Business 66	4
History 1	3
Philosophy 53-54-55	5
Religion 51	1
	19

JUNIOR II

	Credits
Business 58	3
Business 60	3
Business 68	4
History 2	3
Philosophy 60	4
Religion 52	1
	18

SENIOR I

	Credits
Business 61	4
*Business Electives	4
Philosophy 56	4
Philosophy 61	4
Religion 61	1
	17

SENIOR II

	Credits
*Business Electives	8
English 22	3
Philosophy 57	4
Religion 62	1
	16

* Business Electives may be taken in any one of the three fields of concentration, viz: (1) Finance, (2) Marketing, (3) Management.

BACHELOR OF SCIENCE

Chemistry Major

Freshman I

	Credits
Biology 1	4
Chemistry 1	5
English 1	3
German 1	3
Mathematics 5	4
Public Speaking 3	1
Religion 1	1
	21

Freshman II

	Credits
Biology 2	4
Chemistry 2	5
English 2	3
German 2	3
Mathematics 6	4
Public Speaking 4	1
Religion 2	1
	21

Sophomore I

	Credits
Chemistry 22	4
English 21	3
German 21	3
Mathematics 21	4
Chemistry 29	2
Religion 21	1
	17

Sophomore II

	Credits
Chemistry 21	4
English 22	3
German 22	3
Mathematics 22	4
Philosophy 22-23	5
Religion 22	1
	20

Junior I

	Credits
Chemistry 51	5
Chemistry 63	3
Philosophy 53-54	5
Physics 18	4
Religion 51	1
	18

Junior II

	Credits
Chemistry 52	5
Elective	3
Physics 19	4
Philosophy 60	4
Religion 52	1
	17

Senior I

	Credits
Chemistry 53 or 55	4
History 1	3
Physics 20	4
Philosophy 56	4
Philosophy 61	4
Religion 61	1
	20

Senior II

	Credits
Chemistry 54 or 56	4
Chemistry 61	3
History 2	3
Philosophy 57	4
Physics 50	3
Religion 62	1
	18

BACHELOR OF SCIENCE

In Education or Psychology

FRESHMAN I

	Credits
Biology 3	3
English 1	3
History 1	3
Mathematics 5	4
Modern Language 1	3
Public Speaking 3	1
Religion 1	1
	18

FRESHMAN II

	Credits
Biology 4	3
English 2	3
History 2	3
Mathematics 6	4
Modern Language 2	3
Public Speaking 4	1
Religion 2	1
	18

SOPHOMORE I

	Credits
Education 50	3
English 21	3
History 3	3
Modern Language 21	3
Social Science 21	3
Social Science 23	3
Religion 21	1
	19

SOPHOMORE II

	Credits
History 4	3
Modern Language 22	3
Philosophy 22-23	5
English 22	3
Social Science 24	3
Religion 22	1
	18

JUNIOR I

	Credits
Education 51	3
*Psychology 60	4
Philosophy 53-54-55	4
Religion 51	1
Major teaching electives	6
	18

JUNIOR II

	Credits
English	3
Philosophy 60	4
Religion 52	1
*Psychology 66	3
Philosophy 56	4
Electives	5
	20

SENIOR I

	Credits
*Psychology 61	3
*Psychology 64	
Philosophy 57	4
Philosophy 61	4
Religion 61	1
Electives	6
	18

SENIOR II

	Credits
Education 52	3
Education 53	3
Education 54	6
Special Methods	3
*Psychology 63	
*Psychology 65	
Religion 62	1
	16

* Subjects required by psychology majors in lieu of preceding courses.

BACHELOR OF SCIENCE

In History and Social Science

Freshman I

	Credits
Biology 3	3
English 1	3
History 1	3
Mathematics 5	4
Modern Language 1	3
Public Speaking 3	1
Religion 1	1
	18

Freshman II

	Credits
Biology 4	3
English 2	3
History 2	3
Mathematics 6	4
Modern Language 2	3
Public Speaking 4	1
Religion 2	1
	18

Sophomore I

	Credits
English 21	3
History 3	3
Modern Language 21	3
Religion 21	1
Social Science 21	3
Social Science 23	3
	16

Sophomore II

	Credits
History 4	3
Modern Language 22	3
Philosophy 22-23	5
Religion 22	1
English 22	3
Social Science 24	3
	18

Junior I

	Credits
English 22	3
Philosophy 53-54-55	5
Religion 51	1
Social Science 22	3
Electives	6
	18

Junior II

	Credits
English	3
Philosophy 60	4
Religion 52	1
Electives	9
	17

Senior I

	Credits
Philosophy 56	4
Philosophy 61	4
Religion 61	1
Electives	6
	15

Senior II

	Credits
Philosophy 57	4
Religion 62	1
Electives	9
	14

BACHELOR OF SCIENCE

Mathematics Major

FRESHMAN I

	Credits
Chemistry 1	5
English 1	3
French 1 or German 1	3
Mathematics 11	4
Physics 18	4
Religion 1	1
Public Speaking 3	1
	21

FRESHMAN II

	Credits
Chemistry 2	5
English 2	3
French 2 or German 2	3
Mathematics 12	4
Physics 19	4
Religion 2	1
Public Speaking 4	1
	21

SOPHOMORE I

	Credits
English 21	3
French 21 or German 21	3
Mathematics 21	4
Physics 20	4
Religion 21	1
Social Science 23	3
	18

SOPHOMORE II

	Credits
English 22	3
French 22 or German 22	3
Mathematics 22	4
Philosophy 22-23	5
Religion 22	1
Social Science 24	3
	19

JUNIOR I

	Credits
History 1	3
Philosophy 53-54-55	5
Religion 51	1
Mathematics 53	3
Electives	6
	18

JUNIOR II

	Credits
History 2	3
Mathematics 54	3
Philosophy 60	4
Physics 51	3
Religion 52	1
Elective	3
	17

SENIOR I

	Credits
Mathematics 61	3
Philosophy 56	4
Philosophy 61	4
Religion 61	1
Elective	3
	15

SENIOR II

	Credits
Mathematics 62	3
Philosophy 57	4
Religion 62	1
Electives	6
	14

BACHELOR OF SCIENCE

Physics Major

Freshman I

	Credits
Chemistry 1	5
English 1	3
German 1	3
Mathematics 11	4
Physics 18	4
Public Speaking 3	1
Religion 1	1
	21

Freshman II

	Credits
Chemistry 2	5
English 2	3
German 2	3
Mathematics 12	4
Physics 19	4
Religion 2	1
Public Speaking 4	1
	21

Sophomore I

	Credits
Chemistry 22	4
English 21	3
German 21	3
Mathematics 21	4
Physics 20	4
Religion 21	1
	19

Sophomore II

	Credits
English 22	3
German 22	3
Mathematics 22	4
Philosophy 22-23	5
Physics 21	4
Religion 22	1
	20

Junior I

	Credits
History 1	3
Mathematics 53	3
Philosophy 53-54-55	5
Physics 50	4
Physics 53	4
Religion 51	1
	20

Junior II

	Credits
History 2	3
Mathematics 54	3
Physics 51	3
Physics 54	4
Philosophy 60	4
Religion 52	1
	18

Senior I

	Credits
Mathematics 61	3
Physics 63	3
Physics 68	1
Philosophy 56	4
Philosophy 61	4
Religion 61	1
	16

Senior II

	Credits
Mathematics 62 or 55	3
Physics 64	3
Physics 69	1
Physics 75	2
Philosophy 57	4
Religion 62	1
	14

PRE-ENGINEERING

FRESHMAN I

	Credits
Chemistry 1	5
Engineering 3	2
English 1	3
Mathematics 11	4
Physics 18	4
Public Speaking 3	1
Religion 1	1
	20

FRESHMAN II

	Credits
Chemistry 2	5
Engineering 4	2
English 2	3
Mathematics 12	4
Physics 19	4
Public Speaking 4	1
Religion 2	1
	20

SOPHOMORE I

	Credits
Engineering 21	4
*Engineering 24	2
Engineering 23	3
**Chemistry 22	4
Physics 20	4
English 21	3
Mathematics 21	4
Religion 21	1
	21-22

SOPHOMORE II

	Credits
Engineering 22	4
**Chemistry 29	2
*Engineering 30	4
English 22	3
Mathematics 22	4
Philosophy 22-23	5
Religion 22	1
**Chemistry 21	4
	23

*Chemical Engineers omit Engineering 23 and 30.
**Required for Chemical Engineers.

Courses of Instruction

DEPARTMENT OF ART

Mr. Gallagher, *Chairman*

1 & 2. *Art and Lettering* — *6 credits*

Principles of drawing and composition, freehand drawing, perspective, media, instrument drawing, posters and show cards, reproduction.

Two semesters — Evening

3 & 4. *Mechanical Drawing* — *6 credits*

Use of drawing instruments, lettering, orthographic projection, perspective drawing, dimensioning, sectional representation, preparation of drawings and tracings; general and detail drawings of machine parts.

Two semesters — Evening

5 & 6. *Art Appreciation* — *6 credits*

A preliminary and fundamental course on the appreciation of the visual arts connected with a survey of their history from ancient Egypt to the Renaissance.

Two semesters

21 & 22. *Art Appreciation* — *6 credits*

A continuation of art appreciation devoted to a study of the history and to an appreciation of the visual arts from the Renaissance to the present.

Two semesters

51. *Workshop in the Drama* — *4 credits*

This course is designed to be a practical study of the various problems of stage craft encountered in adapting and producing a play. Stages, scenery and costumes will be designed and fabricated in scale models by the students.

Spring semester — Evening

DEPARTMENT OF BIOLOGY

Dr. Wolf, *Chairman*; Fr. Harley, Mr. Kruper, Fr. Venckus, Mr. Corrigan

Courses in the Department of Biology are designed to achieve the following objectives: 1. To further the general education of the individual by presenting the fundamental facts and concepts which are needed for an understanding of the living world and his relations to it. 2. To train the individual in analytical thinking and to acquaint him with the operation of the "scientific method." 3. To develop habits of precision, accuracy, curiosity, critical evaluation, neatness and patience together with skill in laboratory techniques. 4. To prepare students for professional schools such as those of Medicine, Dentistry and allied fields or for advanced study or work in other biological fields.

COURSES

1 & 2. *General Biology* — *8 credits*

This course is a comprehensive survey of all the types of living organisms from the standpoint of their structures, functions, development and relationships. Representatives of the important plant and animal phyla are studied from these aspects with major emphasis on the animal groups. The course also deals with general biological principles such as the nature of life, the organization of living beings, the problems of heredity, development and evolution. It is a prerequisite for all other courses given in the department unless the contrary is specifically indicated. 2 hours lecture and 4 hours lab.

Two semesters

3 & 4. *Educational Biology* — *6 credits*

This is a cultural course in which general biological principles and problems are emphasized especially as they affect the human race and in relation to human problems. It covers, in less detail, the same subject matter as the preceding course and aims at the inculcation of a more generalized knowledge of the major biological principles. Demonstrations are used extensively to supplement laboratory work. 2 hours lecture and 2 hours lab. No prerequisites.

Two semesters

7. *Anatomy and Physiology* — *3 credits*

This is a non-technical presentation of the fundamentals of human anatomy and physiology in order to develop a correct understanding of the structure and function of the human body. There is no formal laboratory work or dissection but demonstrations, charts, models and other visual aids are used extensively as supplementary material. 3 hours lecture and demonstration. No prerequisites.

One semester — Evening

8. *Introduction to Public Health* — *3 credits*

This course is designed to give an understanding of the nature of disease and the principles of disease prevention. It considers the more common communicable diseases as to cause, mode of transmission, methods of control and prevention. The essential facts of immunity, control of food and water supply, sewage disposal, disinfection and problems of public health administration are also included. 3 hours lecture and demonstration. No prerequisites.

One semester — Evening

9. *Human Heredity* — *3 credits*

This course presents the basic principles and concepts of heredity, stressing their practical application to the problems of human inheritance. 3 hours lecture and demonstration. No prerequisites.

One semester — Evening

21 & 22. *Comparative Vertebrate Anatomy* — *8 credits*

The gross anatomy and phylogeny of the organ systems in the vertebrate organism are considered with special emphasis upon the mammalian type. Insofar as possible structure is correlated with function again with special reference to mammalian physiology. Type animals of the major vertebrate classes are studied in the laboratory with dissection confined to the shark, necturus, turtle, pigeon and cat. 2 hours lecture and 4 hours lab. Prerequisite: Biology 1 and 2.
Two semesters

50. *General Botany* — *3 credits*

This course deals with the four major subdivisions of the plant kingdom, studying representative types from the standpoint of structure and function and the illustration of biological principles. 2 hours lecture and 2 hours lab. Prerequisite: Biology 1 and 2.
One semester

51. *General Zoology* — *4 credits*

In this course a more detailed study is made of the animal organism with the work confined almost entirely to representatives of the invertebrate phyla. Detailed studies are made of structure and relationships. 2 hours lecture and 4 hours lab. Prerequisite: Biology 1 and 2.
One semester

52. *Histology* — *4 credits*

This course is concerned primarily with the microscopic structure and the functioning relations of vertebrate tissues and organ systems with most attention devoted to the mammal. 2 hours lecture and 4 hours lab. Prerequisite: Biology 21 and 22.
One semester

53. *Microtechnique* — *4 credits*

A course of training in the preparation of animal and plant tissues for microscopic examination. General methods of preparing histological specimens are covered in detail with special techniques included as time and interest permit. 1 hour lecture and 6 hours lab. Corequisite: Biology 52.
One semester

54. *Embryology* — *4 credits*

A large part of the course is devoted to the early stages of development where gametogenesis, fertilization, cleavage, gastrulation and the formation of germ layers are treated from a comparative viewpoint. The development of general body form, of organs and of organ systems is then studied largely as it occurs in frog, chick and mammal. 2 hours lecture and 4 hours lab. Prerequisite: Biology 21 and 22.
One semester

55. *Genetics* — *4 credits*

The purpose of this course is to give the student a fundamental knowledge of the basic principles and modern theories of heredity as developed by experimental, biometrical and cytological methods. Consideration is given to the practical application of the laws governing inheritance in the fields of plant and animal breeding and human heredity. 2 hours lecture and 4 hours lab.
One semester

56. *General Physiology* — *4 credits*

This course deals with the basic principles and concepts underlying the functioning of the animal organism. The functions of the major organ systems are studied with special attention given to the correlation and integration of these processes in the organism. 2 hours lecture and 4 hours lab. Prerequisites: Biol. 21 & 22, Chemistry 51-52, and Physics 1-2.
One semester

57. *Introductory Bacteriology* — *4 credits*

Presented from the biological rather than from the strictly medical standpoint, this course is a study of bacteria as microorganisms whose life habits involve metabolic activities which have an important bearing upon human affairs. A survey of the pathogens is included with an introduction to the principles of immunology. 2 hours lecture and 4 hours lab. Prerequisites: Biology 21, 22, Chemistry 51-52, and Physics 1-2.
One semester

58. *Advanced Bacteriology* — *4 credits*

This is an extension of the preceding course and involves a more detailed study of the principles and practices of bacteriology with emphasis upon the special cultural methods and tests employed in the growth and preparation of bacterial organisms. Consideration is given to serological tests and the principles upon which they are based. 2 hours lecture and 4 hours lab. Prerequisite: Biology 57.
One semester

61. *Biology Seminar* — *1 credit*

The work of this course is based on recent advances in all fields of biological research and the discussion of basic problems of biology in the light of modern research results. The seminar method is used with each student contributing prepared papers and taking part in discussions. 1 two hour discussion period. Prerequisite: 20 credits in Biology.
One semester

62. *Undergraduate Research and Thesis*

Reserved for advanced students with satisfactory preparation in the biological and physical sciences who are desirous of acquiring methods in biological research. The subject of the problem, time and credits are to be arranged individually. Prerequisites: 20 credits in Biology, Chemistry 51-52, Physics 1-2.

DEPARTMENT OF BUSINESS ADMINISTRATION

Dr. Senker, *Chairman*; Mr. McLean, Mr. Sicherman, Mr. Artabane, Mr. Biglan, Mr. Buckley, Mr. Doherty, Mr. Robert Eckersley, Mr. Vance Eckersley, Mr. Gallagher, Mr. Houlihan, Mr. Robert O'Brien, Mr. O'Malley, Mr. Shaffer, Mr. Tyler, Mr. Villaume.

Objectives of Department: *The courses in Business Administration are designed to impart a training for executive positions in the business world by the study of Accounting, Law and theoretical as well as applied Economics; to serve as a preliminary training for those wishing to enter the field of Law itself; and to train intensively those wishing to enter the field of public or private accounting.*

1. *Elementary Accounting,* *4 credits*

Meaning and purpose of accounting. Development of the accounting equation. Detailed study of the balance sheet and profit and loss statement. The ledger record of business activities. Account and ledger technique, including complete bookkeeping procedures. Adjustments. The journal and its subdivisions. Special journals, their problems and expansion. Ledger subdivision and control accounts. Business papers, the first record of business transactions. Negotiable instruments. The worksheet and summary statements. Completing the ledger record.
One semester

2. *Elementary Accounting,* *4 credits*

Partnership formation and operation. Division of profits. Financial statements of a partnership. Methods of admitting a new partner. Partnership dissolution and liquidation. Organization and operation of the corporation. Detailed study of classification and accounting techniques for capital stock, bonds, mortgages, sinking funds and reserves. Corporate financial statements and their preparation. Changing from a partnership to a corporation. The voucher system. Accounting for the manufacturing concern. Departmental accounting. Inventory valuation and control. Analysis and interpretation of financial statements. Prerequsite: Bus. 1.
One semester

3. *Business Mathematics* *3 credits*

A review of basic high school mathematics in preparation for accounting, statistics and other required business courses on the college level. Fundamental processes and short methods for the accountant. Checking computations. Factors and multiples. Common fractions. Fundamentals of algebra. Progressions. Logarithms. Percentage in all its applications. Cash, trade and bank discounts. Commissions. Simple interest. Partial payments. Averages.
One semester

4. *Accounting Mathematics* *3 credits*

A continuation of business mathematics with particular emphasis on computations necessary for the solution of accounting problems. Inventories. Gross profit com-

putations. Business insurance. Payroll records and procedures. Partnerships. Goodwill. Business finance. Public finance and taxation. Compound interest. Ordinary, life and special annuities. Bond valuation and bond interest. Asset valuation. Building and Loan Associations. Prerequisite: Bus. 3.

One semester

5. *Business Law* — *3 credits*

Introduction to the study of law. Its nature, administration and the various tribunals. Formation, operation and discharge of contracts. Creation of principal and agent relationship. Rights, duties and liabilities of principal, agent and third parties inter se. Modern labor legislation.

One semester

6. *Business Law* — *3 credits*

Statutory and case principles of negotiable instruments. Issuance, negotiation and discharge of promissory notes, drafts and checks. Rights and liabilities of parties to a negotiable instrument. Sales of personal property. Passage of title, risk of loss and seller's warranties. Rights and remedies of unpaid seller. Legal principles of security devices used in business transactions. Prerequisite: Bus. 5.

One semester

21. *Advanced Accounting* — *4 credits*

Continuation of first year accounting and its application in more complex business situations. Correlation of partnership law with accounting procedure. Detailed analysis of content and preparation of corporate balance sheets. Special problems: Installment Accounting, Capital Stock, Surplus and Partnership liquidation. Prerequisite: Bus. 2.

One semester

22. *Advanced Accounting* — *4 credits*

Specialized accounting problems and accepted methods for their solution. Statement of Application of Funds, Statement of Affairs, Bankruptcy and Receivership Accounts, Estate and Trust Accounting, Consignments, Agency and Branch Accounting and Joint Ventures. Comprehensive study of Consolidated Balance Sheets and Profit and Loss Statements. Prerequisite: Bus. 21.

One semester

25. *Business Law* — *3 credits*

Statutory and case law principles of Partnerships and Corporations. Principles of Real and Personal Property. The conveyancing of Real Property. Prerequisite: Bus. 6.

One semester

26. *Business Law* — *3 credits*

The principles of Mortgage law. The principles of Landlord and Tenant law. The principles of Torts. Statutory and case law principles of Business Crimes. The jurisdiction and legal consequences of Bankruptcy. Trust Estates, Wills and Decedent's Estates. Prerequisite: Bus. 25.

One semester

29. *Fundamentals of Business* — *2 credits*

A survey and orientation course designed for the student to enable him to select a major field of concentration. The background of business. Forms of business organization. The product to be marketed. Physical facilities of plant, equipment and layout. The working force and its control. Financing the business. The production process. Selling the product. Internal controls. Business risks. Business growth. Business policy.

One semester

51. *Cost Accounting* — *3 credits*

Basic principles of cost accounting and their practical application in the development of cost accounting procedures. The principles of process cost and specific order cost systems. Practical applications. Development and installation of cost systems. Prerequisite: Bus. 22.

One semester

52. *Cost Accounting* — *3 credits*

Principles of Estimated Cost Systems, Standard Costs and the Control of Distribution Costs. Practical applications. The development of budgets as a basis for cost control. Specialized cost treatments. Graphic presentation of costs. Reports for executive direction. Prerequisite: Bus. 51.

One semester

53. *Auditing Theory* — *3 credits*

The verification of accounts and their presentation in financial statements. A review of "generally accepted accounting principles" and an introduction to applicable auditing standards. Types of audits, relationship with the client, audit programs, the preparation of reports and the ethics of the profession. Prerequisite: Bus. 22.

One semester

53A. *Auditing Applications* — *3 credits*

An intensive application of the theory of audits to specific cases and problems. The preparation and indexing of working papers. Selective testing. Positive and negative confirmations. Review of internal controls. Tax return audits. Types of reports currently employed. Typical audits of department stores, processing com-

panies, investment trusts, public utilities, fraternal organizations and other enterprises. Prerequisite: Bus. 53.

One semester

54. *Federal Taxation and Procedure* — *3 credits*

The federal system of taxation insofar as it concerns the individual taxpayer. The nature of taxable income. A study of the Internal Revenue Code, regulations and selected materials relating to individual tax accounting. The preparation of Internal Revenue Form 1040. Pay-as-you-go Federal Tax System and required returns. Gross income, items included and excluded. Allowable deductions and credits. Filing of returns. Specialized tax accounting requirements for the individual businessman. Prerequisite: Bus. 22.

One semester

54A. *Federal Taxation and Procedure* — *3 credits*

A study of the Internal Revenue Code, regulations and selected materials relating to partnerships, estates and trusts, and corporations. The taxing powers and tax systems of states and their municipal subdivisions; state income, municipal income, capital stock, franchise, loans, bonus, escheat, personal property and real property taxes. Federal estate tax and state inheritance and estate taxes. Miscellaneous federal taxes and the Social Security system. Prerequisite: Bus. 54.

One semester

55. *Accounting Systems* — *3 credits*

Principles of installation. The peculiarities of the various forms of business enterprise and their effect on system installations. A study of the problems, systems and reports of Contractors, Departmental Stores, Building and Loan Associations, Commercial Banks, Insurance companies, Security and Commodity Brokers, Water Utilities, Railroads, Motor Carriers, Air Transportation companies and Municipalities. Prerequisite: Bus. 22.

One semester

56. *C.P.A. Problems* — *3 credits*

A detailed review of problems and questions taken from current examinations given by various states to candidates for the degree of Certified Public Accountant. Partnerships, Corporations, Auditing, Cost Accounting, Taxation, Municipalities and Consolidations. Prerequisite: Bus. 52.

One semester

57. *Money and Banking* — *3 credits*

A general survey of the field of money, credit and prices and an introduction to the study of commercial banking. Evolution of money media, functions of money, monetary standards and the present monetary system of the United States. Com-

mercial banking operations and the use of bank credit in financing business. History of banking in the United States. The operations of a commercial bank. Banking transactions. Recent legislation affecting money, credit and banking in the United States. Prerequisite: Soc. Sc. 24.

One semester

58. *Money and Banking* — *3 credits*

A detailed study of commercial bank operations. Bank reserves, deposits and bank notes. Loans and Discounts. Bank Investments. The credit department. Interbank relations including chain, group and branch banking. The Clearing House and the Par Collection System. The Federal Reserve System. The money markets. Foreign exchange and the methods of financing foreign trade. The Banking System of the United States. Banking problems of today. Prerequisite: Bus. 57.

One semester

59. *Business Statistics* — *3 credits*

Statistical methods, their importance and use in the modern business enterprise. Cautions in their use and interpretation. Initiating and conducting a statistical investigation. Sampling and the concept of error. Tabular and graphic presentation of statistical data. The frequency distribution. Averages. Dispersion and skewness. Dispersion of statistics computed from samples. Prerequisite: Soc. Sc. 24.

One semester

60. *Business Statistics* — *3 credits*

Index number construction and interpretation. Current indices used to measure business activity, prices, wages, cost of living, etc. Time series analysis. Related time series. Correlation and forecasting. The application of statistical methods to the analysis of business data and industrial problems. Prerequisite: Bus. 59.

One semester

61. *Corporation Finance* — *4 credits*

The financial structure and problems of the modern business corporation. Common types of securities. Promotion, including the parts played by promoters, investment banker and the security dealer. Determination, management and distribution of income. Financial problems of expansion including changes in the financial plan. Securing funds for expansion. Failure of corporations, reorganizations, readjustments and receiverships. Bankruptcy and liquidation. Prerequisite: Bus. 58.

One semester

62. *Investment Banking* — *4 credits*

The organization and work of investing institutions, institutional investors, mortgage banking houses and the stock exchanges. The theory of investment banking and

its relation to the business cycle, to credit analysis and to the money market. The practices of investment houses, including the work of negotiation, purchase, underwriting and distribution of new issues. The effect of recent security legislation on investment banking practices. Prequisite: Bus. 58.

One semester

63. *Insurance* — *4 credits*

The underlying principles upon which all forms of insurance are based. The most common policies affecting the individual purchaser of insurance and the business man are thoroughly analyzed. Life, Fire and allied lines, Casualty (including General Liability, Automobile Liability, Comprehensive Liability, Workmen's Compensation, Fidelity and Surety Bonds), Accident and Health (including Hospitalization) and Marine Insurance. Prerequisite: Bus. 58.

One semester

64. *Investments* — *4 credits*

The distinction between the various types of investment securities. Mathematics of investments. Protection of the purchaser in buying, holding and refunding securities. The application of the recognized tests of safety, income and marketability in their selection. Underlying principles in the analysis of government, municipal, railroad, utility, industrial, bank, insurance company, real estate and foreign securities. Effects of recent and current legislation on investment procedure. Prerequisite: Bus. 58.

One semester

65. *Advertising* — *4 credits*

The scope and function of advertising from both the mechanical and managerial points of view. The actual practice of preparing layouts, copywriting and proofreading is combined with the analysis of sales problems and policies within a company. The various advertising media such as newspapers, magazines, direct mail, radio and television reviewed in the light of practical problems. Prerequisite: Bus. 66.

One semester

66. *Marketing* — *4 credits*

The distribution of a product from its very inception to its use by the ultimate consumer. Co-operative marketing, the marketing problems of the individual business, market research and analysis and the choice of marketing channels. All problems are reviewed in the light of the marketing systems of the United States with direct emphasis upon selling through chains, wholesalers, jobbers and direct distribution to retailers and consumers. Prerequisite: Soc. Sc. 24.

One semester

67. *Retail Merchandising* — *4 credits*

The practices and procedures directly concerned with the buying and selling of goods at retail for a profit. Particular emphasis is directed toward present day buying methods of a variety of retail merchandise. The problems of store layout, pricing, customer and product analysis and inventory control are subjected to close scrutiny through the medium of actual cases. Prerequisite: Bus. 66.

One semester

68. *Industrial Management* — *4 credits*

The principles and problems of the business enterprise from the executive point of view. The economic background of management. Theory of specialization, simplification, standardization and diversification. Problems of industry, including location, machinery and equipment, layout, raw materials control, time and motion study and cost control. Field trips to representative industries are conducted to illustrate the theory presented. Prerequisite: Soc. Sc. 24.

One semester

69. *Business Policy* — *4 credits*

The aim of the course is to co-ordinate the work given in the specialized business courses, to show the interrelation between economic theory and business problems, and to indicate the place of public relations in management. Actual cases in business problems are analyzed and studied, and individual research in business problems is conducted by the student. Prerequisite: Soc. Sc. 24.

One semester

70. *Traffic Management* — *4 credits*

This course combines the economics of transportation and the work of the traffic manager. Types of carriers, including railroad, motor, pipe line, air and water. Freight classification, rates, tariffs, special services, regulation, tracing, expediting, claims, and procedures before regulatory bodies for each type of carrier. Prerequisite: Soc. Sc. 24.

One semester

71. *Production Management* — *4 credits*

Application of the principles of scientific management to production. Operation analysis, work simplification and production control including routing, scheduling, dispatching and follow up of work orders. Purchasing, classification and control of inventories. Recruitment, selection, adjustment and termination of laborers. Wage incentive systems. Prerequsite: Bus. 68.

One semester

72. *Factory Management* — *4 credits*

The basic principles and methods of factory organization, operation and control. Methods of production, functional organization of the factory, machinery, equip-

ment and tools. Materials handling equipment. Factory standards and records. Layout of plant. Time and motion studies. Stores management, inspection and follow-up of goods. Inspection trips to various types of industries are made. Prerequisite: Bus. 68.

One semester

73. *Personnel Management* — *4 credits*

The management of personnel for both industrial and commercial types of organizations is included. The background of personnel management. Job analysis, classification and evaluation. Incentive wage systems and merit rating. Sources of supply of workers, selection, interviewing, testing, transfer, promotion and training. Dealing with unions. The Labor-Management Relations Act of 1947. Safety and health, economic security and service activities. Research and statistics on personnel. Prerequisite: Soc. Sc. 24.

One semester

74. *Real Estate Management* — *4 credits*

The fundamentals and problems of the real estate business, including such matters as contracts, deeds, encumbrances and taxes. Auction sales, leases and brokerages. Mortgages, mortgage servicing, real estate appraisal and valuation. Recent and current legislation concerning real estate, including the G.I. Bill of Rights and rent control. Prerequisite: Soc. Sc. 24.

One semester

75. *The Money Markets* — *4 credits*

The historical development and functions of the money markets of the world, their relationship to international banking and to the capital market. The structure and operation of the several components of the New York money market and their relationship to the financial activities of the U. S. Treasury and the Federal Reserve Banks. Prerequisite: Bus. 58.

One semester

76. *Credits and Collections* — *4 credits*

The handling of credits and collections for the different types of business organizations. Establishment and verification of the credit position of a firm or individual. Sources of credit information. A review of the law of credit instruments. The Credit letter. The Collection letter. Collection methods. The place of bank credit departments in determining a line of credit. Prerequisite: Bus. 58.

One semester

77. *Public Finance* — *4 credits*

The development of public finance. Public revenues, including the general property tax, the income tax, death and gift taxes, taxes on business, taxes on con-

sumption, motor vehicle taxes, the poll tax, social security taxes and taxes on natural resources. Shifting and incidence of taxation. Public credit. Public expenditures, including state and federal aids, public works and public welfare. Problems of public borrowing. Fiscal administration, fiscal policy and the business cycle. Prerequisite: Bus. 58.

One semester

78. *Retail Store Management and Operation* — *4 credits*

The theory and problems of managing a retail store from the store manager's point of view. The statistical aspect of retailing, including a review of operating expenses, budgetary control and wage costs. Systematic procedures in the receiving department, handling the goods, the service division, the adjustments department and the credit department. Purchasing policies and procedures. Minimizing operating expenses. Prerequisite: Bus. 66.

One semester

79. *Salesmanship* — *4 credits*

The technique of dealing with the difficulties which are created by the salesman himself, his product and his prospects. The duties of the sales manager, the selection and training of salesmen, compensation, routing of salespeople, interdepartmental relations concerning selling activities, sales promotion and research. Commodity analysis, customer approach and the sales talk. Prerequisite: Bus. 66.

One semester

80. *Office Management* — *4 credits*

This course covers the practical duties of the office manager. His work is viewed toward achieving greater economy and efficiency. The working departments of the office, filing, transcription and general service. Office planning, layout and equipment. Office manual and training. Office costs and budgets. Personnel problems including selection, hiring, transfer, promotion, job analysis, evaluation, classification, and salary schedules. Office systems, routines and procedures. Prerequisite: Soc. Sc. 24.

One semester

101. *C.P.A. Refresher* — *Optional credit*

The C.P.A. Refresher course is a highly intensive, integrated, preparatory review for those aspiring to sit for the Fall Certified Public Accounts examination in the State of Pennsylvania. The course begins in June and continues 20 weeks, 8 hours per week consisting of two sessions of four hours each, ending immediately prior to the date of the State C.P.A. examinations. It is available for those actually practicing accounting or for students who have recently graduated with a major in Accounting. This comprehensive review covers the following subject matter: Partnerships; Corporations; Assets, Liabilities and Net Worth; Auditing;

Cost Accounting; Consolidations; Federal and State Taxation; Estates and Trusts; Business Law; Accounting for Contractors, Department Stores, Utilities, Insurance Companies, Banks, Brokers, Railroads, Motor Transportation Companies, Building and Loan Associations, and Municipalities. A feature of the course is an integration of accounting, law and taxation by subject matter. Due to the special nature of the course and the intensity of the preparation required by way of study and experience on the part of the student, permission of the director of the course is required for admission to class. The fee for the course will be $250, payable $50 per month in advance. College credit will be granted for those requiring it for a degree.

DEPARTMENT OF CHEMISTRY

Fr. Cawley, *Chairman*; Mr. Burti, Mr. Lamberti, Mr. Murray, Mr. Neary, Dr. Evert.

The aims of the department are: 1. To train students to think accurately and logically, to develop an analytical type of mind, and to inculcate the scientific method of attacking a problem not only in chemistry but in other fields of endeavor. 2. To develop character traits such as patience, pertinacity, honesty and neatness, which are indispensable to the scientist. 3. To train the student for a position carrying some degree of responsibility, either as an advanced student in a graduate school or as a member of the staff of an educational, industrial or research institution.

1 & 2. *Inorganic Chemistry* — *10 credits*

A study of the laws, theories and principles of General Chemistry with a survey of the principal elements and their important compounds. Laboratory work exemplifies the classroom discussion. 3 hours lecture and 4 hours lab.

21. *Quantitative Analysis* — *4 credits*

A survey of the general principles of gravimetric, volumetric and electrolytic analyses. Laboratory work stresses technique. 2 hours lecture and 6 hours lab. Prerequisites: Chem. 1, 2 and 22.
One semester

22. *Qualitative Analysis* — *4 credits*

A study of the principles of ionization, oxidation-reduction, solubility product and complex-ion formation. The laboratory work involves the semi-micro technique in the detection and separation of cations and anions. 2 hours lecture and 6 hours lab. Prerequisites: Chem. 1 and 2.
One semester

29. *Industrial Stoichiometry* — *2 credits*

A survey of industrial chemical processes and calculations, stressing fuels, sulphur compounds, lime, cement and metallurgy. 2 hours lecture. Prerequisites: Chem. 1 and 2.
One semester

30. *Physical Chemistry* *3 credits*

An introduction to theoretical chemistry designed especially for engineering students. Prerequisites: Chem 1 and 2; Math. 21.

One semester

51 & 52. *Organic Chemistry* *10 credits*

A study of the carbon atom in relation to aliphatic, aromatic and heterocyclic compounds. Laboratory experiments illustrate synthesis and chemical properties of organic compounds. 3 hours lecture and 6 hours lab. Prerequisites: Chem. 1 and 2.

Two semesters

53 & 54. *Physiological Chemistry* *6 credits*

A study of the nature and important reactions of carbohydrates, fats, proteins; their digestion, absorption and metabolism in the body. 2 hours lecture and 3 hours lab. Prerequisites: Chem. 51, 52 and Chem. 21.

Two semesters

55 & 56. *Physical Chemistry* *8 credits*

A study of the physico-chemical properties of matter and the dynamic of chemical reactions. Laboratory experiments illustrate the principles studied. 3 hours lecture and 3 hours lab. Prerequisites: Chem. 21, 22; Math. 21, 22.

Two semesters

61. *Organic Analysis* *3 credits*

A study of systematic classification and identification of organic compounds from their solubilities and group reactions. 1 hour lecture and 6 hours lab. Prerequisites: Chem. 51 and 52.

One semester

63. *Advanced Quantitative Analysis* *3 credits*

A survey of advanced methods of analysis using specialized apparatus. The analysis of alloys, ores and mixed salts is emphasized. 1 hour lecture and 6 hours lab. Prerequisites: Chem. 21 and 22.

One semester

DEPARTMENT OF CLASSICAL LANGUAGES

Mr. O'Brien, *Chairman*; Mr. Kelley.

The objectives of the classical department are: first, to develop in the student the ability to read easily and to compose readily in Latin and Greek; secondly, through the unrivaled discipline afforded by the tongues of Greece and Rome to train the student in habits of accurate observation, orderly procedure, analysis, logical and inferential thinking; thirdly, to develop the student's powers of appre-

ciation and expression by a thorough study of the matchless artistry of classical literature; and finally to give him a comprehensive understanding of the human values of Graeco-Roman culture in both its pagan and patristic phases and of its profound contributions to modern civilization.

I. GREEK

1 & 2. *Elementary Greek* — *8 credits*

A complete course in the fundamentals of classical Greek, with selected readings and composition work to illustrate the grammar.

Two semesters

3. *Herodotus* — *4 credits*

Selections illustrating the Greek spirit of "historia," the informing spirit of western civilization, and the Greek defense of western against eastern culture.

One semester

4. *Plato* — *4 credits*

The Apology and selections from the Crito and Phaedo are read. A study of one of the noblest characters of antiquity, his ideals and his effect on western thought.

One semester

21. *Demosthenes; Euripides* — *4 credits*

Reading and idiomatic translation of the Olynthiac or Philippic Orations of Demosthenes. These are studied from the point of view of oratorical composition and as a presentation of the Greek ideal of freedom together with the causes leading to its collapse. The Alcestis of Euripides is studied with special attention being given to its literary significance and to the style of Attic drama.

One semester

22. *Demosthenes' Crown Oration* — *4 credits*

The Crown Oration is studied as a model of rhetoric, with discussion of the classic schools of oratory. Special attention will be given to the history of Greece in its struggle against the onslaught of oppression.

One semester

23. *Sophocles* — *4 credits*

This course offers a detailed study of Sophocles' Oedipus Tyrranus as a masterpiece of dramatic art, with an analysis of the structure, the spirit and the character delineation of Greek tragedy, and a discussion of the influence of Sophoclean style on modern drama.

One semester

32. *Plato's Republic* *3 credits*
A study of Greek thought; the soul, education, justice, government, the Ideas.
One semester

33. *Homer* *3 credits*
Selections from the Iliad and Odyssey with a comparative study of the Latin, Italian and English epics. A study of the Greek spirit revealed in its great epics.
One semester

41. *Aristotle* *3 credits*
Selected readings from the Ethics and Politics in which Aristotle's influence on western philosophy is carefully analyzed.
One semester

42. *New Testament Greek* *3 credits*
The linguistic peculiarities of koine Greek, with readings from the New Testament.
One semester

II. Latin

1 & 2. *Latin Review* *0 credits*
An intensive review of the essentials of grammar and syntax with special emphasis on basic rules. Selections from the orations of Cicero with emphasis on classical style and sentence structure. Brief introduction to Latin poetry, with selections.
Two semesters

21. *Horace, Catullus* *4 credits*
In reading the Odes of Horace and the poetry of Catullus attention is concentrated on two main points, development of the power to appreciate aesthetically the lyric beauty of the poems and a deeper understanding of the pagan attitude to life both in its virtues and its shortcomings.
One semester

22. *Latin Poetry* *4 credits*
A detailed study of Cicero's Pro Archia Poeta as an eloquent defense of the literary spirit. Readings in the Aeneid with a comparative study of the great epics of other languages. Emphasis is laid on the poetic values of the work, on its presentation of the Roman spirit and on its abiding humanity.
One semester

23. *Latin Comedy* — *3 credits*

Reading and idiomatic translation of one play of Plautus and one of Terence. Development and technique of play production in Rome. Lectures on Roman comedy, its relation to Greek drama and its influence on modern comedy. Plautus and Terence are contrasted not only as to point of view and literary style, but also as to the different groups for which they wrote.

One semester

26. *Tacitus* — *3 credits*

Selections from the Annals and Histories provide an effective study of forceful style and a wealth of stimulating observations on the progress of empire.

One semester

31. *Roman Satire* — *4 credits*

Horace and Juvenal interpret the life, manners and thought of their times: a revealing study of the unity of human nature in all times.

One semester

32. *Cicero: Rhetoric* — *4 credits*

Cicero's Pro Lege Manilia and Pro Milone are studied from the standpoint of rhetorical analysis, special attention being given to the structure and development of these speeches as well as to the social and political problems of the declining Republic.

One semester

41. *Cicero, de re publica* — *3 credits*

A study of the history of political theory, with reference to Plato and Aristotle. Background of this study is a review of the actual political situations of Athens and Rome. Comparison will be made to modern political theory and practice.

One semester

42. *Patristic Latin* — *3 credits*

The Confessions or City of God of St. Augustine, with selections from other Latin Fathers, will be read in a study of the development of Late and Christian Latin. The course includes a survey of early Christian thought and its reaction to contemporary paganism.

One semester

43. *Lyric Poets* — *3 credits*

Readings of selections from Catullus, Tibullus and Propertius. A brief study of the Augustan Age in Latin Literature with a comparison of the style and sentiments of its various writers. A short history of the elegy.

One semester

DEPARTMENT OF EDUCATION AND PSYCHOLOGY

Dr. Lennon, *Chairman*; Mr. Bourne, Mr. Thomas, Mr. McNichols, Mr. Driscoll, Mr. Miller, Mr. Lilly, Mr. Budash.

The aims of the Department of Education and Psychology are: (1) to develop in the individual those professional qualities required for successful teaching; (2) to offer professional training for certification as a secondary school teacher; (3) to meet requests for courses by teachers in service; (4) to offer training in guidance work; (5) to present a co-ordinated undergraduate program in psychology for the student interested in graduate studies in psychology or related fields.

45. *Methods of Teaching Social Studies in the High School* 3 credits

Objectives of the Social Studies. Fundamental principles and methods applicable to the social studies; lesson plans, problem approach, projects, unit instruction, etc. Materials, charts, graphs, texts, references and equipment are given special consideration.

One semester

46. *Methods of Teaching English in the High School* 3 credits

Aims; objectives; materials of instruction; correlation. Methods in composition: unit, contrast, project, creative writing, debating. Methods in high school reading and literature.

One semester

47. *Methods of Teaching Modern Languages in the High School* 3 credits

48. *Methods of Teaching Sciences in the High School* 3 credits

49. *Methods of Teaching Mathematics in the High School* 3 credits

50. *Introduction to Education* 3 credits

An orientation course presenting certain educational aims, principles, policies of administration, and the duties, responsibilities and advantages of teaching. There is reference to the Pennsylvania School Code and use is made of library references in education.

One semester

51. *History of Education* 3 credits

A survey of educational development from primitive times to the present. The aim of the course is to trace the development of present tendencies from primitive society, Greek and Roman education, the Renaissance and the changes induced by realism, philanthropic education, the psychological and scientific movements. Contributions to modern educational practice are noted.

One semester

52. *Tests and Measurement* — *3 credits*

A practical course giving the history of the testing movement, a knowledge of standardized achievement tests, use and practice in construction of different types of test questions by the secondary school teacher. A limited presentation of fundamental statistics is taught for an understanding of group achievement and intelligence tests.

One semester

53. *Principles and Techniques of High School Teaching* — *3 credits*

A secondary school methods course emphasizing principles and methods of teaching such as socialized recitation, project and problem methods, visual instruction, differentiated instruction and assignment. Classes are observed in progress, and classes are taught in laboratory practice. Prerequisites: Education 50 & 61.

One semester

54. *Observation and Practice Teaching* — *6 credits*

Observation and study of classroom teaching are combined with actual student teaching under expert supervision. Group conferences and personal interviews are held frequently with the supervisor of practice teaching. The student teacher is expected to take part in all school activities. Prerequisites: Education 50, 51, 52, 53 & 61.

One semester

55. *Introduction to Guidance* — *3 credits*

An introduction to the activities and techniques of the guidance program in public schools. Principles and problems of guidance are discussed, varied methods of conducting guidance programs are considered, and texts and workbooks used in high school guidance programs are used in preparing simple guidance lessons. Required for guidance teacher and counselor certificate in Pennsylvania.

One semester

56. *Occupational Information* — *3 credits*

A survey of the fields of work as listed in the U. S. Census and Dictionary of Occupational Titles, considering the requirements for entrance, duties, income, possibilities for advancement, etc. Techniques of assembling and developing occupational materials are discussed, the methods of presenting such material to pupils are demonstrated. Each student will perform a number of job analyses, and will complete a project requiring knowledge or techniques of assembling occupational information. Required for guidance teacher and counselor certificate in Pennsylvania.

One semester

57. *Development of School Guidance Programs* — *3 credits*

An analysis of the techniques and problems involved in organizing and developing guidance programs with particular emphasis on secondary school guidance activi-

ties. Varied types of guidance systems will be discussed and adaptation of these to local needs will be considered in project assignments.

One semester

58. *Current Practices in Supervision and Administration* 3 credits

A discussion of the problems involved in State, County and City school administration and supervision. State and national participation both as to support and control are included. The following topics are among those studied: organization, finance, budgets, pupil accounting, health, building programs, school law, etc.

One semester

59. *Techniques of Visual and Sensory Aids* 3 credits

The state course of study is followed. All types of materials and pictures that can be used in teaching are studied. Picture projection is studied as a regular classroom procedure, and objective tests are constructed based upon educational films. Other visual aids stressed include school journeys, object-specimen models, charts, graphs, diagrams, maps.

One semester

60. *General Psychology* 3 credits

This course is a study of the basic psychological processes. It treats of experimental data on the nervous system, senses, sensation, perception, imagination, cognition, emotion and volition.

One semester

61. *Educational Psychology* 3 credits

An introductory course in educational psychology stressing the development of individual differences, intelligence, use of intelligence and aptitude tests, learning, guidance and transfer of training. Prerequisite: Philosophy 60 or Education 60.

One semester

62. *Adolescence* 3 credits

The development of physical, mental, moral, and social traits of adolescence with special reference to their bearing upon problems of instruction in junior and senior high schools.

One semester

63. *Psychological Testing—Individual* Variable credit

The principles of individual testing as applied to the Stanford Revision of the Binet and Wechsler-Bellevue Scales are discussed. Each student will be required to do a definite number of practice tests.

One semester

64. *Mental Hygiene* — *3 credits*

The definition of mental hygiene, problems and objectives, need for integration and balance. The prevention of unwholesome patterns of adjustment. The thwarting of urges; psychology of adjustment, type and use of mechanisms. The true value of religion in mental hygiene.

One semester

65. *Abnormal Psychology* — *3 credits*

An eclectic viewpoint of most rational explanations of mental diseases is held throughout discussions of classification, psychoses, neuroses, alcoholism, psychopathic personalities and sensory disorders. Cultural and sociological factors are emphasized.

One semester

66. *Statistics in Education and Psychology* — *3 credits*

A first course in statistics treating of the following topics: frequency distribution, measures of central tendency, variability, graphic methods, normal probability curve, validity, reliability, correlation, regression and prediction.

One semester

DEPARTMENT OF ENGINEERING

Mr. Plonsky, *Chairman*; Mr. Beaumont, Mr. Rist

The purpose of the Engineering Department is to introduce the student into the Engineering profession by training him for the technical problems encountered in Engineering.

3. *Mechanical Drawing* — *2 credits*

Use of drawing instruments, lettering, orthographic projections, dimensioning, freehand drawing, sectional views, conventional and semi-conventional representation of screw threads, tracings on tracing paper and tracing cloth. Six hours.

One semester

4. *Mechanical Drawing* — *2 credits*

Dimensioned drawings of objects in orthographic projections including auxiliary and sectional views; isometric, oblique and perspective drawings; freehand sketching from models of simple machine parts in orthographic projection; tracings on tracing paper and tracing cloth. Prerequisite: Engin. 3. Six hours.

One semester

21. *Engineering Mechanics* — *4 credits*

This course is devoted to the study and analysis of various types of systems; resultants and conditions of equilibrium; stress analysis of the parts of different

types of structures by graphical and analytical methods; frictional forces; centroids and moments of inertia of areas and solids. Prerequisites: Physics 18; Corequisite: Math. 21.

One semester

22. *Engineering Mechanics* — *4 credits*

Kinematics of particles and rigid bodies which includes linear, curvilinear, angular and relative motions; inertia forces, impulse momentum, work, energy and power considerations of mechanics; balancing rigid rotors. This course is designed for both engineering and physics students. Prerequisite: Engin. 21; Corequisite: Math. 22.

One semester

23. *Plane Surveying* — *3 credits*

While being introduced to the theory of plane surveying the student will be given the opportunity to familiarize himself with the Dumpy and Wye levels, several makes of transits, their use, care and adjustment. The methods demonstrated and used will be: the differential and reciprocal methods of leveling, the stadia method of measuring distances, the calculation of the true bearing of a course from observations on the sun and the staking out of simple highway curves as well as the location of buildings and underground and overhead utility lines. In addition, the tangent method of plotting a traverse, including contour lines and other pertinent information necessary for the completion of a map will be considered. 1½ hours Lec. and Rec. 4½ hours Laboratory.

One semester

24. *Descriptive Geometry* — *2 credits*

The geometric method of projection of points, lines and planes and the application of these methods to graphical solution of engineering problems involving lines, planes and solids; truncations and intersections of solids leading to the development of surfaces. The rules of drafting room practices are continued regarding lettering and contrast lines. Six hours. Prerequisite: Engin. 4.

One semester

30. *Elements of Electrical Engineering* — *4 credits*

A treatment of fundamental principles of electric and magnetic circuits and the application of these principles to the theory and performance of electrical machinery. The subjects treated are: Direct-current and alternating-current circuits; magnetic circuits; direct-current generators and motors; alternating-current generators and motors; transformers; current, voltage and power measuring devices; power transmission. Prerequisite: Physics 20.

One semester

31. *Electrical Engineering Laboratory* *2 credits*

This course consists of ten laboratory exercises designed to familiarize the student with the elements of electrical measurements and with the characteristics and fundamental principles of operation of common types of electrical machinery and their associated control apparatus. One hour recitation and three hours laboratory. Prerequisite: Engin. 30.

One semester

DEPARTMENT OF ENGLISH

Fr. Grady, S.J., *Chairman*; Mr. Belvedere, Mr. Burke, Mr. Cullather, Miss Durkin, Mr. Huzzard, Mr. Lavin, Mr. McCoola, Mr. O'Leary, Mr. Pontrelli, Mr. Vournakes, Mr. Watts.

The aim of the Department of English is to furnish the student with a balanced course in English which will realize the objectives of a liberal arts college. The course is planned to train the student to read, write and speak English as effectively as possible and encourage him to appreciate more deeply the artistic creations of the English language. All candidates for the degree will be required to take courses 1-2, and 21-22. The remaining courses are offered as electives for those who have satisfied the requirements of the basic courses.

01. *Remedial English* *0 credits*

For students who have failed to meet the desired level of proficiency in reading and writing English in the English Placement Tests. The course is conducted in conference groups with one general meeting weekly.

1-2. *College Composition and Introduction to Literature* *6 credits*

This course is designed to increase the college student's mastery of the techniques of communication in English, to introduce him to the general types of western literature; and, by stimulating his imagination and observation, to develop his skill in vital expression, oral and written. Lectures, discussions and required exercises.

Two semesters

3-4. *Public Speaking* *2 credits*

The principles of oral expression; enunciation, pronunciation, emphasis, interpretation; together with the elements of argumentation, the preparation and presentation of formal and informal speeches.

Two semesters

16. *Public Speaking* *2 credits*

A concentrated course emphasizing the organization and structure of speeches designed for particular occasions: speeches of introduction, welcome, impromptu speeches, etc. Extra-curricular reading of classic and modern speeches required.

One semester Evening

18. *Oral Expression for the Teacher* — *2 credits*

The physiological and psychological characteristics of tone and modulation for the classroom teacher; principles of breathing and voice control, pitch and range, with a view to assist the teacher to avoid voice-fatigue and better to hold the interest of and influence the pupils.

One semester — Evening

21. *The Art of Poetry* — *3 credits*

A course to develop understanding and appreciation of poetry as a creative art through a thorough study of its intellectual and emotional content, its imaginative style, and its forms, types, and techniques.

One semester — Evening

22. *The Art of the Drama* — *3 credits*

Reading and critical study of the types of drama; its history from the earliest times to Ibsen.

One semester — Evening

31. *The Forms of Drama* — *3 credits*

The study of the development of the technique of drama from Ibsen to the present day through the reading of representative nineteenth century and contemporary plays.

One semester

45. *Survey of British Literature: (a) 1000-1780* — *3 credits*

One semester — Evening

46. *Survey of British Literature: (b) 1780-1930* — *3 credits*

One semester — Evening

48. *The American Novel* — *3 credits*

A survey of the development of the distinctively American Novel from Washington Irving and Cooper to Thomas Wolfe.

One semester — Evening

50. *Literature and Culture* — *3 credits*

A study and analysis of literary masterpieces, past and present, grouped under the headings: Idea of a University; the University as custodian of western culture; literature, as a channel of that culture; including the draft, art, philosophy and criticism of literature; the forms of literature. (Weekly written reports are demanded.)

One semester — Evening

51. *Shakespeare: The Tragedies and Chronicles* — *3 credits*

Critical and appreciative study of five major tragedies and five of the principal chronicle plays.

One semester

52. *Shakespeare: The Comedies* — *3 credits*

A critical and appreciative study of the major comedies of Shakespeare, and of the comic sequences in the Chronicles.

One semester

54. *The Novel in English* — *3 credits*

A study of the major English novelists from Defoe to Conrad. The art of the novel will be considered through a close scrutiny of several outstanding novels. Types of fiction and historical trends will be covered. Outside readings and written reports will be required to cover the material not treated in the classroom discussions.

One semester

56. *American Literature* — *3 credits*

A survey of the development of the body of distinctly American literature through the XVIIIth and XIXth Centuries. The emergence of a consciously different body of American writers during and after World War I, and through the recent years.

One semester

57. *Modern Drama* — *3 credits*

The study of the development of the technique of drama from Ibsen to the present day through the reading of representative nineteenth century and contemporary plays.

One semester

60. *Fundamentals of Journalism* — *3 credits*

A survey of the history and development of modern journalism; journalistic terminology; newspaper and magazine editorial organization; varieties of newspaper writing; publicity, advertising copy, news-reporting, features, editorials. Newspaper and magazine layout. Headline writing.

One semester

63. *Creative Writing Seminar* — *3 credits*

Group conferences and discussions of the techniques of writing for publication: fiction, poetry, playwriting, biography. For selected advanced students who have shown superior ability in creative imaginative expression.

One semester

64. *Journalism: II* *3 credits*

Preparation of news copy, editing copy for publication; preparation of feature and special articles; editorials and editorial policies. Prerequisite: English 60.

One semester

70. *Medieval English Literature, 1000-1400* *3 credits*

A study of the historical, social and literary background with emphasis on the works of Chaucer. For selected advanced students majoring in English.

One semester

75. *Trends in Modern Literature* *3 credits*

An aesthetic and philosophic analysis of the principal schools of modern literature. Poetry and the novel will be treated extensively, with consideration given to the drama. Among the authors studied, (in translation where necessary), are: Yeats, Eliot, Mallarme, Valery, Claudel, Auden, Kafka, Tate, Lowell, Merton, Proust, Gide, Joyce, Mann, Mauriac, Green, Waugh.

One semester Evening

DEPARTMENT OF HISTORY

Dr. Walton, *Chairman*; Mr. Brown, Mr. Cleary, Mr. Gerrity, Mr. Scully.

The aims of the Department of History are: (1) To contribute to the culture and development of the student; (2) to encourage the student to approach the subject along the lines of solid historical methodology in his investigation, determination and reconstruction of data; (3) to present history as the study of human activities and concrete events which have social significance; (4) to demonstrate that the content constitutes a body of knowledge the parts of which are interdependent because of causal relations; (5) to bring to the student an intelligent and critically sympathetic understanding of his own and other people's civilization and culture. The Department does not aim to make specialists; rather it aims to give a comprehensive understanding of basic historical trends. At the end of his sophomore year the student desiring to major in History will consult with the Chairman of the Department who will review the applicant's qualifications and assist in the selection of a faculty adviser.

Prerequisites: For the History major History 1-2, 3-4, plus eighteen credit hours from upper division courses for a total of thirty credit hours. The Department strongly recommends History 59-60, 71-2, 85-6, and 64 or 97 as the courses best designed to give the student that comprehensiveness of understanding which constitutes one of the major aims of the Department.

Pre-legal students working in History and allied fields are urged to follow History 55-6, 75-6, Soc. Sc. 50 and 70 and courses in Business Administration numbered 1-2, 57-8, 61 and 64.

1 & 2. *Political and Social History of the United States* *6 credits*
A fundamental study of the history of the United States from the time of its European beginnings to the present, with special emphasis on the history of Pennsylvania. The first semester will analyze the period from our colonial origins to the end of the Civil War. The second semester will deal with the period of Reconstruction to our own times. Required of all students for any degree from the University. This course also meets the requirement of the State for public school teaching.
Two semesters

3 & 4. *History of Modern Europe, 1500 to the Present* *6 credits*
A fundamental study of European history with main concentration upon the political aspects of European development. First semester: from the period of the rise of national monarchies to the Congress of Vienna. Second semester: from 1815 to the present. Continued emphasis will be placed on political developments but the significance of industrialism, the new nationalism and liberalism will be noted.
Two semesters

51 & 52. *American Diplomatic History* *6 credits*
First semester: survey of the origins and development and functions of the state department and its relation to other policy-forming agencies of the federal government. Diplomatic activities prior to 1789; the Louisiana Purchase; War of 1812; the Monroe Doctrine, Manifest Destiny. Second semester: Pan-Americanism, Cuba and the Caribbean, the Open Door and Far Eastern Policy; arbitration and world peace; World War I; problems in the inter-bellum period; today's challenges and attempted solutions; United Nations organization.
Two semesters

53 & 54. *The Western Hemisphere* *6 credits*
A survey of our American neighbors emphasizing their relationship to the United States; First semester: Latin America—discovery and exploration; the colonial empires; independence movements; political and socio-economic developments in the national period; ABC powers in world affairs; Pan Americanism and the Good Neighbor policy.
Second semester: Canada—discovery and exploration; Anglo-French rivalry; British Canada; War of 1812; rebellion, Lord Durham report and self-government; the federation move; Dominion government; national political and socio-economic develpoments; the Statute of Westminister.
Two semesters

55 & 56. *American Constitutional and Legal History* *6 credits*
First semester: the historical background of the federal constitution; legal disputes and theories of colonial and revolutionary periods; the nature of the Constitution

and its interpretation by Marshall and Taney. Second semester: constitutional problems occasioned by the Civil War; the new amendments; the expansion of federal powers; state constitutions; power and activities in relation to the federal constitution. Key cases will be analyzed and set in their proper historical perspective.

Two semesters

57 & 58. *History of American Political Thought* *6 credits*

An inquiry into the major philosophies which helped shape our institutions. First semester: Puritan concepts of liberty, property and representation; views of the Independents; pre-Revolutionary society and thought and the growing adherence to the notion of independence; the Constitution as it represents a compromise between the conservative and liberal traditions; Jeffersonian and Jacksonian democracy; social, economic and political ramifications of the slavery question. Second semester: triumph of the nationalist view and its implications; recent tendencies; the problem of liberty in our complex, highly technical American society.

Two semesters

59 & 60. *Development of American Civilization* *6 credits*

An analysis of leading economic, social and cultural aspects of American life. First semester: study of the economic, religious and intellectual bases of colonial American life; impact of the Revolution; development of town and country life; sectional differences; the first factories and labor movements; growth of democracy and the reform movements. Second semester: study of the leading economic, social and cultural factors which shaped modern life and institutions since 1865. Among the topics treated are the growth of industry, agriculture and the agrarian discontent; the disappearance of the frontier; labor and immigration; sport, literature and the arts; religious tendencies; diffusion of knowledge.

Two semesters

61. *The United States in the Twentieth Century* *3 credits*

An intensive study of American development from 1900 to the present. Stress will be placed on the Roosevelt Era and its Progressivism, Wilson's New Freedom, diplomacy of the first World War, the return to "normalcy", the Great Depression and the New Deal, Roosevelt and world politics, and origins and consequences of World War II.

One semester

62. *History of Pennsylvania* *3 credits*

A study of the political economic and social factors in the history of the commonwealth from colonial times to the present.

One semester

63. *The Political Parties of the United States* — *3 credits*

An analysis of the origins, nature and functions of parties under our American system of government; the English tradition of the party system; differences between the English and American concepts; Jeffersonianism versus Hamiltonianism; sectionalism and pressure groups; splits in party organization prior to the Civil War; impact of the new industrial order on political alignments; the role of third parties in the United States; current stresses and strains on both major party organizations.

One semester

64. *Co-ordinating Seminar in American History* — *3 credits*

Intensive readings and reports on selected problems in American history. In all discussions an attempt will be made to integrate information in such terms as will give a unified picture of American life and institutions. Open only to Seniors working in History or by special permission from the Chairman of the Department. Normally History 1 & 2 and twelve additional credits from courses 51 to 63 will be prerequisites.

One semester

71 & 72. *Development of Contemporary Civilization in Western Europe* — *6 credits*

An analysis of the major economic, social and cultural aspects of European life since 1500. First semester: impact of the Protestant Revolution on European society; decline of medieval religious and economic unity; commercialism and the bourgeoisie; the intellectual revolution; antecedents of the French Revolution. Second semester: liberalism and reactions; fruits of the industrial revolution; march of the new sciences; socialism and communism; nationalism and imperialism; the twentieth century inheritance.

Two semesters

73 & 74. *History of European Political Thought* — *6 credits*

An inquiry into the major philosophies which helped shape European institutions. First semester: from Plato to the sixteenth century, with attention to the Greek philosophy of man and political society, the Stoics, medieval theory, especially that of St. Thomas Aquinas; the Legists. Second semester: modern conceptions of man and political society with special emphasis on contemporary notions of law, sovereignty, equality and human rights. Intensive readings from representative thinkers of each period.

Two semesters

75 & 76. *Constitutional and Legal History of Great Britain* — *6 credits*

The course will study the development of constitutionalism against the political background. First semester: the coalescence of Anglo-Saxon and Norman insti-

tutions; the Great Charter and the concept of representation; development of the common law; origins and growth of parliament. Second semester: developments since 1688; the House of Commons; parliament versus royal prerogative; cabinet and ministerial responsibility; Parliamentary Bill of 1911; extension of administrative law and adjudication; Statute of Westminister; recent changes in imperial relationships.

Two semesters

77 & 78. *Governments and Peoples in the Contemporary World* — *6 credits*

A survey will be made of the major governments of the western world and of the relationships between government and governed in the international sphere, and between government and governed in the national sphere. Russia, Germany, Italy, France, Great Britain and the United States will be the countries treated most adequately. First semester: study of the machinery by which the affairs of various foreign countries are conducted; national foreign policies; the structure of Europe after World War I. Second semester: Totalitarianism versus democracy; problems of empire and dependent peoples.

Two semesters

79 & 80. *French Revolution and Napoleonic Era* — *6 credits*

First semester: historical antecedents of the Revolution; the Philosophies; republicanism and the fall of the monarchy; Reign of Terror; France and Europe; the Directory. Second semester: rise of Napoleon; the Consulate; internal achievements; intervention in Europe; significance of the Spanish and Russian campaigns; War of Liberation; Waterloo. Critical assessment of the period in the light of modern trends.

Two semesters

81 & 82. *Europe in the Nineteenth Century* — *6 credits*

The Congress of Vienna and the European restoration; the rise of national sentiment and its expression in revolutions; the Industrial Revolution and its social, political and colonial consequences. The unification of Italy and Germany; Russia; Mediterranean politics and the Eastern Question; international alliances and rivalries.

Two semesters

83 & 84. *Ancient History* — *6 credits*

A survey of the culture and civilization of the Mediterranean World to the end of the barbarian invasions.

Two semesters

85 & 86. *Medieval History* — *6 credits*

A survey of medieval political and religious institutions. First semester: the origins and diffusion of Christianity; the contribution of imperial Rome; the emergence of political authority after the invasion and settlement of the barbarians; the spread of learning under monastic influence; the role of the Papacy; the achievements of the Crusades. Second semester: Decline of the Eastern Empire; the Holy Roman Empire; the Church in the period of Innocent III, the Renaissance of the twelfth and thirteenth centuries; the decline of medieval Europe before the secularization of thought in the field of politics, economics and religion.

Two semesters

87 & 88. *Renaissance and Reformation* — *6 credits*

An intensive study of Europe from the fourteenth to the middle of the seventeenth century. First semester: study of humanism, the new wealth and the bourgeoisie; breakdown of medieval unity. Second semester: the causes of the Protestant Revolution; Luther, Henry VIII, Calvin. The Catholic Reformation, religious wars, Peace of Westphalia.

Two semesters

89 & 90. *History of the Far Eastern People* — *6 credits*

A survey of the oriental world with special emphasis on China and Japan. First semester: origins of the Chinese people; their relations to their eastern neighbors and the Western Powers; the Ch'ing dynasty; revolutionary China; the two World Wars; problems of contemporary China. Second semester: origins of the Japanese people, eastern relations; the Tokugawa Shogunate and its importance; American penetration 1853-4; Meiji Reforms; Japanese militarism; problems of contemporary Japan.

Two semesters

97. *Co-ordinating Seminar in European History* — *3 credits*

Open only to Seniors working in History or by special permission from the Chairman of the Department.

Intensive readings and reports on selected problems in European History. In all discussions an attempt will be made to integrate information in such terms as will give a unified picture of European institutions and their development. Normally History 3 & 4 and twelve additional credits from course 71 to 89 will be required for admission.

One semester

DEPARTMENT OF MATHEMATICS

Dr. Harper, *Chairman*; Mr. Bartley, Mr. O'Shea, Mr. Savulis

The Department of Mathematics instructs students who are pursuing different courses of study and recognizes that the instruction must be adapted as much as possible to the needs of these students. For the Arts and Social Science students the objectives of the Department are: (a) to train the students in the basic and necessary skills of mathematics which will be required in nontechnical pursuits; (b) to bring out the cultural and applied values of mathematics; and (c) to show the dependence of other branches of knowledge on mathematics. In addition in the instruction of engineering and science students for whom mathematics is a tool subject the objectives of the Department are: (a) to develop skill and accuracy in mathematical operations; and (b) to familiarize the students with the methods of mathematical analysis. Finally for those students who show special aptitude for mathematics it is the objective of the Department to prepare them to pursue advanced work in this field.

1. *College Algebra* — *4 credits*

Linear, quadratic and algebraic equations. Functions and graphic methods. Mathematical induction, permutations and combinations, determinants, etc. Four hours.

One semester — Evening

2. *Plane Trigonometry* — *4 credits*

Trigonometric functions of angles, solutions of right triangles, use of logarithms in trigonometric problems, trigonometric identities, functions of sums and differences of angles, trigonometric laws and special relations, and applications to triangles of any type. Three hours lecture and recitation.

One semester — Evening

3. *Analytic Geometry* — *3 credits*

The fundamental properties of the conic sections and a brief introduction to the geometry of three dimensions. Three hours. Pre-requisites: Math. 1 and 2 or equivalent.

One semester

4. *Junior High School Mathematics* — *3 credits*

This course is designed for Junior High School mathematics teachers; it includes an intensive review of the basic subject matter of advanced arithmetic, algebra and geometry with methods of presenting these subjects to Junior High School students. In addition particular attention is devoted to the problems of motivation, to making mathematics practical, and to methods of overcoming the student's difficulties with mathematics.

One semester — Evenings

5. *Mathematical Analysis* — *4 credits*

The first part of an integrated college course covering the subjects of Algebra, Trigonometry and Analytic Geometry, devoted mainly to the treatment of Algebra. This course is designed for pre-medical and other students who will be required to take courses of chemistry, physics and other science courses. Four hours of lecture and recitation.

6. *Mathematical Analysis* — *4 credits*

A continuation of Mathematics 5 devoted chiefly to the treatment of Trigonometry and Analytic Geometry. Together with Mathematics 5 this course constitutes the complete college Mathematics course required of the pre-medical and other pre-professional students. Four hours lecture and recitation. Prerequisite: Math. 5.

One semester

11. *Algebra and Trigonometry* — *4 credits*

An intensified course covering the topics of simultaneous equations, quadratic and higher order equations, complex quantities, exponents, logarithms, trigonometric functions, solution of triangles, trigonometric laws, identities and equations, and inverse trigonometric functions. This course is designed particularly for Engineering and Physics students. Four hours lecture and recitation.

One semester

12. *Analytic Geometry and Introduction to Calculus* — *4 credits*

This course covers the subject of Analytic Geometry and leads into Calculus. The subject matter includes: loci, straight lines, circles, ellipses and other conics, solid analytic geometry; an introductory treatment of the processes of differentiation and integration. For Engineering and Physics students. Four hours lecture and recitation. Prerequisite: Math. 11.

One semester

21. *Differential Calculus* — *4 credits*

Variables and functions; limits; differentiation; rates; applications of derivatives to geometrical and physical problems involving maxima and minima; differentials and a brief introduction to the process of integration; Rolle's theorem and the theorem of the mean; indeterminate forms; elementary treatment of partial derivatives and transformation of variables. Four hours. Prerequisites: Math. 12, or equivalent.

One semester

22. *Integral Calculus* — *4 credits*

Integration as the inverse of differentiation; the definite integral; integration as a process of summation; approximate evaluation of integrals; integration by parts and

other methods; reduction formulas; partial differentiation, total differentials and their geometrical interpretation; multiple integrals; use of integrals in the evaluation of areas, arc lengths, volumes, surfaces, fluid pressures, work, centroids and moments of inertia; infinite series and the approximate evaluation of functions by series. Four hours. Prerequisite: Math. 21.
One semester

53. *Differential Equations* — 3 credits

A treatment of ordinary differential equations. First order, first and higher degree differential equations; special solutions; linear equations with constant coefficients and with variable coefficients; total differential equations; operator methods; approximate solutions; applications of differential equations to geometrical and physical problems. For Mathematics, Physics and other science students. Three hours. Prerequisite: Math. 22.
One semester

54. *Vector Analysis* — 3 credits

A treatment of the theory of vectors and their applications to the solution of mathematical and physical problems. For Physics and Mathematics majors. Three hours. Prerequisites: Math 22, Math. 53.
One semester

55. *Advanced Differential Equations* — 3 credits

This course includes the treatment of special differential equations and partial differential equations and their applications. Non-linear differential equations; linear partial differential equations of first and higher order; non-linear partial differential equations of first and second order. Recommended for Physics and Mathematics majors. Three hours. Prerequisite: Math. 53.
One semester

57. *Introduction to Statistical Analysis* — 3 credits

Curve plotting; frequency curves, averages, measures of dispersion, theory of correlation. Applications to the natural and social sciences. Three hours. Prerequisite: Math. 22.
One semester

58. *History of Mathematics* — 3 credits

Treats of the development of Mathematics from earliest times through the Calculus. Three hours. Prerequisite: Math. 22.
One semester

61. *Advanced Calculus* — 3 credits

A critical study of the foundations of differential and integral Calculus; further study of the mean value theorem; series; representation of various functions in

terms of power series; partial and directional derivatives of functions of several variables; space integrals, Green's and Stoke's theorems; elementary treatment of functions of a complex variable. For Physics and Mathematics majors. Three hours. Prerequisites: Math. 22, Math. 53.
One semester

62. *Advanced Calculus* — *3 credits*

An introductory treatment of special types of series and integrals including elliptic integrals, Fourier series and functions, Gamma and Beta functions, Bessel functions, and further treatment of functions of a complex variable. Recommended for Physics and Mathematics majors. Three hours. Prerequisite: Math. 61.
One semester

DEPARTMENT OF MODERN LANGUAGES

Dr. Corbett, *Chairman*; Fr. Beleckas, Dr. Kucas, Dr. Weiss, Mr. Cimini, Mr. Sena, Mr. Sherman, Mr. Vaiciulaitis.

The Modern Language Department undertakes to develop not only facility in reading, but also some ability in understanding, speaking and writing the language studied. In view of the interdependence of the various phases of language learning, the attainment of these objectives calls for the integrated use, in proportions adapted to the various levels, of aural and oral practice, written exercises and progressive reading. The Department also aims to promote a fuller understanding of the history and culture of other peoples through the study of their language and literature.

At the beginning of the first semester a placement test is given to students offering two years or more of high school credit in a modern language. Students passing this test will be admitted to the intermediate course in that language. Students failing in this test, and students admitted with less than two units in a language, are required to take the elementary course in that language.

Year courses marked with an asterisk for a normal sequence, but are so constructed that one term may be taken without the other.

FRENCH

1 & 2. *Elementary French* — *6 credits*

Aim: a solid foundation in grammatical principles and the mastery of a basic vocabulary. The course includes intensive drill in pronunciation, active use of vocabulary and grammatical principles in written and oral exercises, graded readings.

Two semesters

21 & 22. *Intermediate French* — *6 credits*

Aim: increased facility in the active use of basic grammar and vocabulary, enlarged reading ability, and an introduction to French civilization. The course includes

grammatical review, written and oral composition, reading of selected modern prose of intermediate difficulty. Prerequisites: see introduction.

Two semesters

31 & 32.* *Modern French Novel* — *3-3 credits*

A study of the various trends in modern French thought as developed by representative authors of the 19th and early 20th centuries. The following literary movements are studied: le Romantisme, le Realisme, le Naturalisme, le Symbolisme. Course conducted in French.

Two semesters

41. *Advanced Grammar and Composition* — *3 credits*

A review of French grammar emphasizing advanced topics and the idiomatic use of the language in set themes and free compositions, with the aim of developing the ability to write French clearly and fluently.

One semester

51 & 52.* *The Classical Period* — *3-3 credits*

Authors of the 17th century are read and discussed. A study is made of the classical movement in French thought and culture, with emphasis given to such authors as Corneille, Racine, Moliere and Boileau. Course conducted in French.

Two semesters

53. *Modern French Theater* — *3 credits*

Plays representative of the development of the French theater throughout the 19th and early 20th centuries are read and analyzed. Course conducted in French.

One semester

55. *Modern French Poetry* — *3 credits*

The development of modern French poetry including le Romantisme, le Parnasse, le Symbolisme and contemporary poetry. Course conducted in French.

One semester

61. *French Conversation* — *3 credits*

A course designed to enable the student to express himself in French with clarity and fluency. Stress is placed on pronunciation, idiomatic use of the language, and practice in oral composition. Course conducted in French.

One semester

63. *The Catholic Revival* — *3 credits*

The growing body of Catholic thought in the literature of contemporary France. Reading and study of such authors as Bazin, Bordeaux, Bourget, Claudel, Maritain, Mauriac.

One semester

GERMAN

1 & 2. *Elementary German* — *6 credits*

A complete course in the fundamentals of the German language. Emphasis on reading of graded texts, with written, oral and aural exercises.
Two semesters

21 & 22. *Intermediate German* — *6 credits*

Reading from modern authors of moderate difficulty. Oral and written exercises. Systematic review of German grammar. Prerequisite: See general introduction.
Two semesters

31 & 32. *Advanced German* — *6 credits*

Selected texts in prose and poetry. Advanced practise in conversation and composition.
Two semesters

51 & 52. *Scientific German* — *6 credits*

Reading of technical and scientific German.
Two semesters

53. *The German "Novelle"* — *3 credits*

Extensive reading. Emphasis on literary appreciation of this form.
One semester

54. *The German Classics* — *3 credits*

Readings from Goethe and Schiller; an understanding of their position in world literature.
One semester

55. *History of German Literature* — *3 credits*

Study of the history of German literature, accompanied by selected readings of significant German writers.
One semester

ITALIAN

1 & 2. ELEMENTARY ITALIAN — *6 credits*

This course is intended for those who begin Italian in college. Principles of Italian grammar, practice in reading, writing and speaking Italian. Its aim is to enable students to read ordinary Italian with ease and to understand to some extent the spoken language.
Two semesters

21 & 22. *Conversational Italian* — *6 credits*

Prerequisite: Italian 1 & 2.
Two semesters

Polish

1 & 2. *Elementary Polish* *4 credits*

Fundamentals of grammar, reading and composition.

Two semesters Evening

21 & 22. *Advanced Polish* *4 credits*

Reading of selected texts in prose and poetry.

Two semesters Evening

Russian

1 & 2. *Great Russian* *4 credits*

Principles of the grammar of the Great Russian dialect, official language of the U.S.S.R. The new orthography and grammatical modifications introduced since the Bolshevik revolution will be followed. The object is to obtain a speaking and writing knowledge of standard Russian, with some practice in reading the Russian Classics.

Two semesters

21 & 22. *Advanced Russian* *4 credits*

Two semesters

Spanish

1 & 2. *Elementary Spanish* *6 credits*

Aim: solid foundation in grammatical principles and mastery of a basic vocabulary. The course includes intensive drill in pronunciation, active use of vocabulary and grammatical principles in written and oral exercises, graded readings. Prerequisite: see general introduction.

Two semesters

21 & 22. *Intermediate Spanish* *6 credits*

Aim: increased facility in active use of basic grammar and vocabulary, enlarged reading ability, and an introduction to Spanish and Spanish-American civilization. The course includes grammatical review, written and oral composition, reading of selected modern prose of intermediate difficulty. Prerequisite: see general introduction.

Two semesters

31 & 32*. *The Modern Novel* *3-3 credits*

A study of the short story and novel of Spain and Spanish-America in the late 19th and early 20th centuries. Readings in the most important authors, with background lectures on the history of the novel and discussions in Spanish.

Two semesters

41. *Advanced Grammar and Composition* — *3 credits*

A grammar review emphasizing advanced topics and the idiomatic use of Spanish in set themes and free compositions, with the aim of developing the ability to write clear and fluent Spanish.
One semester

51 & 52*. *Commercial Spanish* — *3-3 credits*

A study of vocabulary and forms used in commerce. Practice in writing of letters and other business forms. Reading of Spanish models as a basis for free composition. Oral practice in Spanish.
Two semesters

53 & 54*. *The Golden Age* — *3-3 credits*

A study of the development of the novel, with the culmination of all forms in Cervantes; and of the drama, reaching its perfection in Lope de Vega and Calderon. Readings in the major authors.
Two semesters

61. *Conversational Spanish* — *3 credits*

A course designed to enable the student to express himself in Spanish with clarity and fluency. Stress placed on pronunciation, idiomatic use of the language, and practice in oral composition. Course conducted in Spanish.
One semester

DEPARTMENT OF PHILOSOPHY

Fr. Jacklin, *Chairman*; Fr. Coniff, Fr. Dougherty, Fr. Reed, Fr. Trundle, Mr. Bourne, Mr. Davey, Mr. Kelley.

The program in the field of philosophy is designed to train the student in the art of thinking and to acquaint him with the significant issues which confront him in arriving at a reasoned explanation of the world in general and of man in particular. The method is both critical and constructive. Emphasis is laid on the centrality of theistic and ethical problems. Upon concluding the course the student will have gained an intimate acquaintance with the wisdom of the past and a thorough understanding of the principles and values, which are enduring foundations of the Christian culture and civilization of the West.

22. *Logic* — *2 credits*

Philosophy and science: divisions of logic. Nature of idea and phantasm. Kinds of ideas: universals, categories, predicables. Nature of terms; supposition. Definition and division: rules. Nature of judgment and proposition: truth and error in judgment; quality and quantity of propositions; opposition of propositions; inference. Reasoning and argumentations: deduction; nature of syllogism and its rules. Nature of induction, its logical foundations, inductive method, probability. Fallacies.

One semester

23. *Epistemology* — *3 credits*

The possibility of valid knowledge; skepticism and Descartes' doubt; the primary truths. The validity of human knowledge; sources of certitude; the truth value of consciousness; fallacy of idealism; the existence of extra-mental and extra-ego reality; problem of secondary qualities. Intellection: the importance and history of the problem of universals; critique of extreme realism, nominalism, conceptualism. Moderate realism; the value of necessary judgments, of deductive and inductive reasoning, of human testimony. The nature of objective evidence; the ultimate motive of certitude and universal criterion of truth.

One semester

53. *Cosmology* — *3 credits*

The origin of the universe; critique of pantheistic and naturalistic monism. Contingency of the world; creation; the final cause of the world. The common properties and activities of bodies: concept of quantity, its formal effect, existence of continuous extension. The philosophic concepts of space, place, time, motion. Causality and law; the existence of efficient causes; natural laws and miracles. Essential constitution of bodies: substantial change, bodily essences, corporeal constitution; dynamism and atomism. The ultimate constituent principles of bodies; prime matter and substantial form.

One semester

54. *Metaphysics* — *3 credits*

Definition of metaphysics: its relation to other sciences. The problem of being; analogical concept and transcendental attributes of being. The nature of change; potential and actual being, substance and accident. The Aristotelian analysis of causality. Contingent being: its origin, constitution, teleology. Absolute being.

One semester

55. *Natural Theology* — *1 credit*

An evaluation of the proofs for the existence of God as the unproduced, intelligent, personal, first cause of contingent being. The divine essence and attributes. God's knowledge and action in the universe. Pantheism and the problem of evil.

One semester

56. *Basic Ethics* — *4 credits*

Basic ethics studies the morality of human actions in general. Starting with the accepted notions of morals, morality, responsibility, obligation, it develops the true meaning of moral goodness and moral obligation. An analysis of free human actions from the point of view, first, of their finality, secondly, of their relation to the nature of the person, and, thirdly, of their concrete circumstances, leads to an understanding of the essence of moral goodness and malice. The law of nature as applied to rational activity explains the meaning, nature, and extent of

moral obligation. These constitute the objective order of morality. The subjective order of morality consists in the application of these objective norms through the practical reason and moral conscience.

One semester

57. *Special Ethics* — *4 credits*

Special ethics applies the general principles of moral conduct to particular problems arising from man's relation to God, to his fellow-man, and to himself, and from his rights in respect to material possessions. Social morality first establishes the essential sociality of man, and then investigates the rights and duties natural to man in the three fundamental forms of human association; the family, the state, and religious society. Prerequisite: Phil. 56.

One semester

60. *General Psychology* — *4 credits*

A survey of the field of psychology, its nature and scope. The human organism and its nervous system; simple and conditioned reflexes. Psychosomatic nature of man; sensation, perception, imagination and memory; associationism and gestaltism. Dynamic forces of human nature; pleasure and pain; impulse, desire, feeling, emotion, habit and instinct. Critique of modern theories.

One semester

61. *Rational Psychology* — *4 credits*

Animal and human psychology. The intellect and its functions; abstraction, origin of ideas, inference, reasoning. Volition, motivation, the nature of human freedom and responsibility. The conscious and subconscious mind; psychoanalysis; extra-normal mental states. The human person; unity, nature, origin and destiny. The psychological grounds of character and personality. Prerequisite: Phil. 60.

One semester

70. *History of Ancient Philosophy* — *3 credits*

An analysis of the wisdom of the ancients stressing their scientific and philosophic contributions to the tradition of western civilization: the Milesians, Eleatics, Pythagoreans, Heraclitus, Democritus, Socrates, Plato, Aristotle, the Epicureans, Stoics, Sceptics, Neo-Platonists and Patristic philosophy.

One semester

71. *History of Medieval Philosophy* — *3 credits*

An appraisal of the contribution of the schoolmen to the history of thought. Significance and originality of Augustine. Scotus Erigena, St. Anselm, the influence of the mystical schools, Arabian and Jewish philosophy, the controversy over the universals. Albert, Bonaventure, Roger Bacon, the Thomistic synthesis. Duns Scotus and Ockham; the decline of scholasticism and philosophical trends of the Renaissance.

One semester

72. *History of Modern Thought* — *3 credits*

Descartes; his methods, principles and influence on modern thought. Malebranche, Spinoza, Leibnitz, Hobbes, Locke, Berkeley, Hume. Kant and his influence: Fichte, Schelling, Hegel, Schopenhauer. Herbert Spencer: Nietzsche. Comparative study of Neo-Scholasticism and contemporary non-scholastic thought.

One semester

73. *History of Ethics* — *3 credits*

Survey and critical appreciation of the principal systems of moral philosophy, ancient and modern. Greek philosophy; Christian antiquity; medieval philosophy; modern systems.

One semester

DEPARTMENT OF PHYSICS

Dr. Harper, *Chairman*; Mr. McGinnis, Mr. Mullen, Mr. Rounds.

The science of Physics is concerned principally with matter and energy, the nature of each and with their interactions. It is the fundamental science for most branches of engineering and has innumerable applications in medicine, industry and everyday life. The objectives of the Department of Physics are: (1) to aid the student in acquiring scientific method and in developing a quantitative frame of mind in dealing with his problems; (2) to train the student in logical and accurate methods of analysis and in precise observation and measurement; (3) to provide the student with adequate training in the fundamentals of Physics in order to enable him to pursue medical, engineering and other courses of training; (4) to encourage and train those students who show exceptional aptitude for the science of Physics for a career in the teaching of Physics or industrial work in Physics, and to encourage those students who have the capacity to pursue graduate work in Physics.

1. *General Physics* — *4 credits*

A fundamental college course in mechanics and heat. For pre-medical, predental and other students who need one year of college physics. Three hours lecture and recitation and two hours laboratory. Prerequisites: Math. 5 & 6.

One semester

2. *General Physics* — *4 credits*

A continuation of Physics 1, including electricity and magnetism, sound and light. Three hours lecture and recitation and two hours laboratory. Prerequisites: Physics 1; Math. 5 & 6.

One semester

8. *Elementary Photography* — *3 credits*

Optical systems of cameras, action of light on photographic emulsion, characteristic curves of emulsions, developers, fixers, intensifiers and reducers. One

hour lecture and four hours laboratory. Projects will be designed for individual work in laboratory. Prerequisites: Physics 2 or 19 (recommended).

One semester

9. *Electronics* — *3 credits*

A descriptive, non-mathematical course treating of the development of the electron theory, the discoveries of electronic phenomena, and the various applications of electronic devices. Three hours lecture with demonstrations.

One semester

18. *Technical Physics: Elementary Mechanics* — *4 credits*

An elementary treatment of the statics and dynamics of particles and rigid bodies, elastic bodies, hydrostatics and hydrodynamics. For Engineering and Physics students. Three hours lecture and recitation and two hours laboratory. Co-requisite: Math. 11.

One semester

19. *Technical Physics: Heat, Light and Sound* — *4 credits*

Basic treatment of the effects of heat, thermometry, calorimetry, transfer of heat and elementary thermodynamics; periodic motions, vibrating bodies, sound waves and acoustics; photometry, reflection and refraction of light, interference, polarization, color and spectra. For Engineering and Physics students. Three hours lecture and recitation and two hours laboratory. Prerequisites: Physics 18; Math. 11.

One semester

20. *Technical Physics: Electricity and Magnetism* — *4 credits*

Basic treatment of magnetism, electrostatics, direct currents and circuits, electromagnetic induction, alternating currents and circuits, electrical machines and devices, electromagnetic waves; introductory electronics and atomic physics. For Engineering and Physics students. Three hours lecture and recitation and two hours laboratory. Prerequisites: Physics 19; Math. 12.

One semester

21. *Light and Optics* — *4 credits*

A second course of light which treats geometrical and physical optics in greater detail than in the elementary courses. The topics include lenses and mirrors, refraction of light at surfaces, dispersion, lens combinations, optical instruments, spectra, interference, diffraction and polarization. The laboratory exercises are to acquaint the student with the handling and use of optical instruments in making optical measurements. Three hours lecture and two hours laboratory. Required of Physics majors. Prerequisites: Physics 19 & 20, or 1 & 2; Math. 21.

One semester

50. *Heat and Thermodynamics* — *4 credits*

An intermediate course of heat and thermodynamics which covers the topics of conduction, convection and radiation, the first and second laws of thermodynamics, enthropy, thermodynamic cycles, the steam engine, refrigeration, thermodynamic functions and applications of thermodynamics. The use of steam tables and charts is included. This course is required of Physics majors. Four hours lecture and recitation. Prerequisites: Physics 20; Math. 22.

One semester

51. *Mechanics* — *3 credits*

An introduction to theoretical mechanics which deals with the statics and dynamics of particles and rigid bodies. It covers the topics of motion of bodies in different fields of force, energy relations, theory of potential, center of mass and moments of inertia. This course is required of Physics majors. Three hours lecture. Prerequisites: Physics 20; Math. 53.

One semester

52. *Mechanics* — *3 credits*

A continuation of Physics 51. The topics include special types of motion of bodies, waves in elastic media, hydrostatics and hydrodynamics. This course is recommended for Physics majors. Three hours lecture. Prerequisites: Physics 51; Math. 53 & 54.

One semester

53. *Electricity and Magnetism* — *4 credits*

A detailed treatment of electrical and magnetic phenomena and theory. The topics include electrical and magnetic quantities, electrostatics, magnetostatics, direct current circuits and measurements, magnetic effects of currents, electrolysis, voltaic cells and thermoelectricity. This course is required of Physics majors. Three hours lecture and two hours laboratory. Prerequisites: Physics 20; Math. 22.

One semester

54. *Electricity and Magnetism* — *4 credits*

A continuation of Physics 53. The topics include electromagnetic induction, alternating current circuits and measurements, theory of magnetic flux measurements, filters, lines, thermionic emission and electromagnetic waves. This course is required of Physics majors. Three hours lecture and two hours laboratory. Prerequisites: Physics 53; Math. 53.

One semester

61. *Radio Tubes and Circuits* — *4 credits*

This course covers the fundamental theory of thermionic emission, vacuum tube construction and characteristics, rectifiers, amplifiers, receivers, oscillators, modulators, transmitters and antennae. The accompanying laboratory exercises are

devoted to the construction and testing of radio circuits. This course is recommended for Physics majors. Three hours lecture and two hours laboratory. Prerequisites: Physics 20; Math. 22.

One semester

63. *Modern Physics* — *3 credits*

A mathematical treatment of various phases of modern Physics which includes the topics of kinetic theory, electrical discharges in gases, electron theory, atomic structure, atomic spectra, x-rays and other electromagnetic radiations. This course is required of Physics majors. Three hours lecture. Prerequisites: Physics 21, 50, 51 & 54; Math. 53 & 54, or 61.

One semester

64. *Modern Physics* — *3 credits*

A continuation of Physics 63. This course is devoted to the treatment of quantum theory, photoelectricity, radioactivity, nuclear particles, nuclear reactions, induced radioactivity and cosmic rays. This course is required of Physics majors. Three hours lecture. Prerequisite: Physics 63.

One semester

65. *Sound* — *3 credits*

A detailed study of the nature, production, propagation and absorption of sound, acoustics and the theory of sound measurements. This course is recommended for Physics majors. Three hours lecture. Prerequisites: Physics 20; Math. 22 & 53.

One semester

67. *Medical Physics* — *3 credits*

This course is designed to fill the need of a second course of Physics for medical students. The purpose of this course is to give these students a thorough knowledge of the many applications which are made of physical principles and physical devices in medical practice and research. The course treats the theory and application of various electrical and magnetic devices, optical instruments, electronic devices, x-ray equipment and radioactivity. Three hours lecture. Prerequisites: Physics 2; Math. 6.

One semester

68. *Advanced Physics Laboratory* — *1 credit*

This course includes experiments, not given in connection with other courses, on the charge and specific charge of the electron, vacuum tube characteristics, photoelectricity and atomic spectra. Required of Senior Physics majors. Prerequisites: Physics 21, 50, 53 & 54.

One semester

69. Advanced Physics Laboratory *1 credit*

A continuation of Physics 68. The experiments cover thermoelectricity, production and measurement of high vacuum, x-ray absorption and diffraction and radioactivity. Required of Senior Physics majors. Prerequisites: Physics 63 & 68.

One semester

75. Undergraduate Physics Thesis *Variable credit*

For those who apply for the B.S. degree with a major in Physics. This work is to evaluate the student's capacity for individual study and research in connection with a specific physical problem. Assignment of the problem and credit to be arranged in each case. Prerequisites: 30 credits in Physics; 20 credits in Math.

One semester

RADIO

1. Fundamentals of Radio Broadcasting: I *3 credits*

An introductory course in the techniques of radio communication from the broadcaster's, not the engineer's viewpoint. A survey of the history of broadcasting and the development of networks and the National Broadcasting Association and Federal Communications Commission; elements of station operation and administration; basic microphone techniques; forms of various types of programs; basic techniques of continuity preparation and script writing; relative functions of producer, director and studio staff; relationships of station, sponsors and agencies; practice in program preparation and presentation.

One semester Evening

2. Fundamentals of Radio Broadcasting: II *3 credits*

Preparation of programs: musical, dramatic, round-table, commentary, sports reviews, question-and-answer features, etc. The use of transcribed and recorded materials. Block programming; series programs and serials; feature and special commemorative programs. Public service and educational programs. Use of sound effects; music for atmosphere and moods; bridges. Practice in presentation of various types of programs and in writing one-shot fifteen minute productions.

One semester Evening

DEPARTMENT OF RELIGION

Fr. Martin, *Chairman*; Fr. Cortese, Fr. Donovan, Fr. Giroux, Fr. Green, Fr. Griffin, Fr. Hines, Fr. Kolucki, Fr. Ozalas, Fr. Quinn, Fr. Reed, Fr. Shaughnessy, Fr. Trundle, Fr. Wayda.

The program in religion at the University of Scranton has been organized upon the fundamental principle that religion is something vital, which must be lived as well as understood. It is not intended to train theologians but rather to form thoroughly enlightened and strongly motivated Catholic gentlemen, bent upon attaining their full stature in the Mystical Body of Christ.

1 & 2. *The Sacraments and the Mass* — *2 credits*

The course is devoted to a practical consideration of the seven sacraments and of the Sacrifice of the Mass as the central act of liturgical worship. Nature of grace produced by the sacraments as practical signs. Requirements for administration and reception. Baptism and supernatural birth; Confirmation; The Holy Eucharist; the Real Presence; Transubstantiation; Penance; Indulgences; Extreme Unction; Holy Orders; Matrimony; properties of marriage; impediments to matrimony; civil and ecclesiastical effects of marriage contract as a free contract.

Two semesters

21 & 22. *God and Creation* — *2 credits*

Existence and nature of God; the Mystery of the Blessed Trinity. Creation and supernatural destiny of men; original justice and original sin. The Immaculate Conception. Eschatology.

Two semesters

51 & 52. *Redemption and Life in Christ* — *2 credits*

The mystery of the Word made flesh. The union of the divine and human natures in the Person of Christ. The human intellect and will of Christ; theandric actions, holiness and merits of Christ. The prophetic office, power and priesthood of Christ; the redemptive sacrifice; the worship of Christ. Mariology. The effects of the redemption; supernatural life in Christ; the necessity and nature of sanctifying and actual grace; growth in Christ.

Two semesters

61. *Life in the Church* — *1 credit*

Intended to provide a review of previous courses and to give an advanced understanding of Catholic teaching, this course studies the meaning and reason of Catholic dogma in general, its historical necessity, its relation to the teaching authority of the Church and its foundation in the sources of revelation. The problem of Faith and Reason is discussed as a modern aspect of the above doctrine. This is followed by a study of the origin, purpose and history of the Gospel according to St. Matthew emphasizing the Person of Christ and the notion of Christian virtue.

One semester

62. *Life in the Church* — *1 credit*

The second part of the course is a study of the theological virtues of faith, hope and charity, and of the interior nature and external organization of the Church as instituted by Christ. These doctrines are studied directly from the text of the Discourse at the Last Supper and from related texts.

One semester

DEPARTMENT OF SOCIAL SCIENCE

Mr. Mott, *Chairman*; Mr. Bugden, Mr. Baldi, Mr. Reilly, Mr. Sheehan, Mr. O'Keefe, Mr. Walsh.

Training in the Social Sciences has several aims: (1) the student receives the general cultural development which helps him to adapt himself better to the various societies of which he is a member, whether it be family, church, free association, or the state; (2) it prepares him to assume a degree of leadership in improving the means employed by these groups in attaining their proper ends. Instructional methods for achieving these ends emphasize training in research and the arrangement of data; correct analysis and generalizations on the basis of these data with regard to the growth, structure, and pathology of human institutions; and application of these findings for the improvement of society within the framework of principles supplied by ethics. The course in Social Science is adaptable to the ends of both the terminal and prospective graduate student. Concentrations are available in the fields of Economics, Political Science, Sociology, and Industrial Relations, preparing one for entry into the legal or teaching professions, politics and public administration, social service, journalism, and labor relations. A major in the Social Sciences consists in 21 credits plus 12 in the same or in a closely related field.

Economics

23 & 24. *Principles of Economics* — *6 credits*

An introduction to the principles of economic theory and their application to present-day problems. Economic organization of the United States—of consumption, production and marketing, foreign trade, money and credit, prices, foreign exchange, wage theories and the relation of employer and employed, capital and interest, rents, profits, and taxation. The course concludes with a critical examination of modern capitalism and alternative economic systems.

Two semesters

53. *Labor Problems* — *3 credits*

History of labor as a social and economic group; development and philosophy of trade unions; labor legislation; methods of dealing with insecurity and inadequate income; organizational and jurisdictional problems of unions; labor-management relations. Prerequisite: Soc. Sc. 24.

One semester

56. *Current Economic Problems* — *3 credits*

This course seeks to develop an understanding of the economic problems of the day. Basic economic problems in the domestic field include labor relations, unionism, taxation, federal government budgets, production and prices and the role of the government in the economic world. Problems in the international field include tariffs, exchange problems, foreign trade, international co-operation

through the International Monetary Fund, the World Bank and the United Nations, and World Reconstruction. Prerequisite: Soc. Sc. 24.
One semester

63. *Economic Geography* — *3 credits*

A study of the physical environment which in a large sense sets the stage for all economic activities. Specifically, the influence of climate, land forms and soils and their distribution on the surface of the earth are investigated. Emphasis is placed upon the relation of physical factors and economic conditions to the production and exchange of the world's leading commercial products. The North American, South American and European continents are studied, with emphasis being placed on their relationship to the United States. Prerequisite: Soc. Sc. 24.

One semester

64. *Economic History* — *3 credits*

The background of European expansion in America. The American Revolution as a social movement. The economic forces that conditioned the development of the United States prior to 1860. The economic bases of Southern secession and the breakdown of the Confederacy. The economic aspects of the reconstruction policy, agriculture and agrarian discontent. The emergence of large scale enterprise and its attendant problems. The development of the United States as a major world power. The economic and social problems of World War I and the post-war period. The great depression, boom and World War II periods and problems of current significance. Prerequisite. Soc. Sc. 24.

One semester

POLITICAL SCIENCE

50. *American Government* — *3 credits*

Constitutional basis for national government; relation of the federal to state governments; organization, powers, and procedures of the legislative, executive, and judicial branches of the national government; functions and services of the government.

One semester

51 & 52. *American Diplomatic History* — *6 credits*

First semester: survey of the origins and development and functions of the State Department and its relation to other policy-forming agencies of the federal government. Diplomatic activities prior to 1789; the Louisiana Purchase; War of 1812; the Monroe Doctrine; Manifest Destiny. Second semester: Pan-Americanism, Cuba and the Caribbean, World War I; problems in the inter-bellum period; today's challenges and attempted solutions. United Nations Organization. (Taught in the Department of History.)

Two semesters

55 & 56. *American Constitutional and Legal History* — *6 credits*

First semester: the historical background of the federal constitution; legal disputes and theories of colonial and revolutionary periods; the nature of the Constitution and its interpretation by Marshall and Taney. Second semester: constitutional problems occasioned by the Civil War; the new amendments; the expansion of federal powers. State constitutions, powers and activities in relation to the federal constitution. Key cases will be analyzed in detail and set in their proper historical perspective. (Taught in the Department of History.)

Two semesters

57 & 58. *History of American Political and Social Thought* — *6 credits*

An inquiry into the major philosophies which helped shape our institutions. First semester: Puritan concepts of liberty, property and representation; views of the Independents; pre-Revolutionary society and thought and the growing adherence to the notion of independence; the Constitution as it represents a compromise between the conservative and liberal traditions; Jeffersonian and Jacksonian democracy; social, economic, and political ramifications of the slavery question. Second semester: triumph of the nationalist view and its implications; recent tendencies; the problem of liberty in the complex, highly technical American society. (Taught in the Department of History.)

Two semesters

63. *The Political Parties of the United States* — *3 credits*

An analysis of the origins, nature and functions of parties under our American system of government; the English tradition of the party system; differences between the English and American concepts. Jeffersonianism versus Hamiltonianism; sectionalism and pressure groups; splits in party organization prior to the Civil War; impact of the new industrial order on political alignments; the role of third parties in the United States; current stresses and strains on both major party organizations. (Taught in the Department of History.)

One semester

70. *Local Government* — *3 credits*

Types of local government; evolution of the American township, county, borough, and city from English prototypes; participation in local government and politics as a training school for democracy; constitutional and statutory limitations on local governments; efforts to preserve "home rule"; functions of local officials; budget, personnel, local taxation and assessment, purchasing, indebtedness; suggestions for improvement in structure and operation of local governments, especially those of Pennsylvania.

One semester

71. *Public Administration* — *3 credits*

Nature of public administration; structures and limitations imposed through legislative statutes and appropriations; staff organization and flow of command; employment policies, personnel training and management; employee organization; public relations.

One semester

73 & 74. *History of European Political and Social Thought* — *6 credits*

An inquiry into the major philosophies which helped shape European institutions. First semester: from Plato to the Sixteenth Century, with attention to the Greek philosophy of man and political society, the Stoics, medieval theory, especially that of St. Thomas Aquinas; the Legists. Second semester: modern conceptions of man and political society with special emphasis on contemporary notions of law, sovereignty, equality and human rights. Intensive reading in writings of representative thinkers of each period. (Taught in the Department of History.)

Two semesters

75 & 76. *Constitutional and Legal History of Great Britain* — *6 credits*

The course will study the development of constitutionalism against the political background. First semester: the coalescence of Anglo-Saxon and Norman institutions, the Great Charter and the concept of representation; development of the common law; origins and growth of parliament. Second semester: developments since 1688; the House of Commons; parliament versus royal prerogative; cabinet and ministerial responsibility; Parliamentary Bill of 1911; extension of administrative law and adjudication; Statute of Westminister. (Taught in the Department of History.)

Two semesters

77 & 78. *Governments and Peoples in the Contemporary World* — *6 credits*

A solid survey will be made of the major governments of the western world and of the relationships between government and governed in the international sphere, and between government and governed in the national sphere. Russia, Germany, Italy, France, Great Britain and the United States will be the countries treated most adequately. First semester: study of the machinery by which the affairs of various foreign countries are conducted; national foreign policies; the structure of Europe after World War I. Second semester: Totalitarianism versus democracy; problems of empire and dependent peoples. Special attention will be given to the role of the United States in world affairs. (Taught in the Department of History.)

Two semesters

79. *Political Science* — *3 credits*

A survey of the variety of functions, forms and mechanisms of civil societies at all levels in their economic, cultural, and historical settings with a view to deriving generalizations helpful toward directing the state and its subsidiaries in the most appropriate and efficient manner toward their appointed ends. (Only for those majoring in Political Science.)

One semester

Sociology

21. *Basic Sociology* — *3 credits*

Basis of Society: Man. His spiritual nature; his animal nature; his rational nature; his social nature; his culture.

Function of Society: The social processes: competition, conflict, co-operation, accommodation, assimilation and stratification and their relationship to social control.

Structure of Society: Types of communities, populations. The family as the basic social institution; political, religious, economic, ethnic and racial, and educational institutions.

One semester

22. *Social Problems and Agencies* — *3 credits*

Housing, crime, juvenile delinquency, mental defectiveness, dependency and relief, recreation and leisure, education, child welfare, the Negro, rural needs, religion, family disintegration. Emphasis on local community agencies.

One semester

50. *The Family* — *3 credits*

Sociological role of the family; history of the family; family organization and social control; legal regulation of marriage and the family; religion in the home; eugenics and the family; rural and urban families; trends in marriage and divorce; intermarriage; economic factors in the home; disintegrating factors in family life; foundations of marital happiness; security; co-operation with community agencies.

One semester

52. *Criminology* — *3 credits*

Law and crime; statistics and causes of crime; physical and physiological factors in criminality; the home and family in relation to crime; probation and parole; the juvenile court; prison and punishment; prevention of crime.

One semester

60. *Social Origins* — *3 credits*

Brief survey of present state of knowledge in the field of physical anthropology; animal and human groups compared and contrasted; man's pre-history as revealed

by paleontology and archaeology; analysis of modern primitive cultures for the light they shed on possible stages in man's past cultural acquisitions; social, economic, religious, and political structures and processes in various contemporary primitive societies; corresponding structures and practices in modern civilization.
One semester

61. *Sociological Theory* *3 credits*
Development of sociological principles beginning with Comte and including a comparison of the modern major schools of thought—such as mechanistic, Le Play, geographical, biological, demographic, psychological, sociologistic, and Marxian.
One semester

64. *Community Organization* *3 credits*
Purpose, scope and method of community organization as a social work process. The relationship of community organization to social planning, social action, social group work and social research will be discussed. Attention given to those agencies which have community organization as their major purpose, such as Community Chests and Councils, as well as those in which it is a secondary function. Lectures supplemented by discussion of various aspects by workers in the field.
One semester

66. *Child Welfare* *3 credits*
An analysis of the philosophy and development of child welfare in the United States with consideration given to the historical development of the problem in England; consideration given to the methods in which basic needs for all children are met through educational, health, recreational and child labor regulations. Particular emphasis given to provisions for the study and treatment of dependent, neglected, delinquent and illegitimate children in their own homes, foster homes and institutions. The administration of child care and protective programs through private agencies functioning on Federal, State and local levels will also be studied. Lectures supplemented by discussion of various aspects by workers in the fields.
One semester

70. *Communist, Fascist, and Democratic Societies* *3 credits*
A comparative structural analysis of actual and ideal type communistic, fascist, and democratic societies, measured in terms of efficiency, integration, and justice to all peoples directly or indirectly concerned.
One semester

71. *The Field of Social Work* *3 credits*
An analysis of the growth of social work as a professional endeavor. The scope of social work: case work in the medical, psychiatric, family and child welfare and guidance field; community organization as exemplified in the community

chest and council, social research, social planning, social group work. Evolution of training for social work. Schools of social work, national associations, number of social workers, demand for social workers, salaries. Current trends in social work. Lectures supplemented by discussions of specific areas by workers in the field.

One semester

Industrial Relations

Courses given for college credit in the Institute of Industrial Relations; descriptions are to be found in the catalogue of the Institute. The work described below is intended primarily for high school or college graduates who wish to become proficient in the field of industrial relations through part-time study.

Each unit of the courses listed below comprise one-half semester hour of study, for which one-half credit may be earned.

1. *Speech for Industrial Relations* — *4 credits*
   - Unit A—Basic Principles of Speech
   - Unit B—Continuation of Unit A
   - Unit C—Logical Analysis of Speeches
   - Unit D—Speech Construction
   - Unit E—Group Discussion and Debate
   - Unit F—Persuasive Speech
   - Unit G—Rules of Parliamentary Procedure
   - Unit H—Applied Parliamentary Procedure

2. *Industrial Society* — *2 credits*
   - Unit A—Nature of Society
   - Unit B—Communist, Fascist, and Democratic Society
   - Unit C—Unionism and Democracy
   - Unit D—Ethical Problems in Industrial Society

3. *Psychology of Industrial Relations* — *2 credits*
   - Unit A—Psychology of Human Relations
   - Unit B—Art of Leadership
   - Unit C—Psychological Background of Industrial War and Peace
   - Unit D—Psychological Factors in Industrial Management

4. *Economic Principles and Problems* — *2 credits*
   - Unit A—History and Nature of the Capitalistic System
   - Unit B—Economic Concepts
   - Unit C—Current Economic Problems
   - Unit D—Economic Problems of the Anthracite Region

5. *Labor Problems* — *3 credits*

Unit A—History and Philosophy of Organized Labor
Unit B—Union Administration
Unit C—Labor Legislation
Unit D—Labor Economics
Unit E—Collective Bargaining
Unit F—The Worker as Consumer

6. *Industrial Journalism* — *2 credits*

Unit A—Interpretation of the News
Unit B—Public Relations of Labor and Management
Unit C—Effective Writing
Unit D—Editing the Labor Paper and House Organ

7. *Policies and Procedures in Industrial Relations* — *2 credits*

Unit A—Employment Practices
Unit B—Scientific Management
Unit C—Health and Safety Programs
Unit D—Employment Training Procedures

8. *Workshop in Current Labor Trends and Problems* — *1 to 4 credits*

The Workshop is held for 16 hours each year preceding the first semester. Conducted in seminar fashion, it treats of a subject of current interest. Various points of view are contributed by guest lecturers and by reports made by students. The identical subject matter is not repeated over a four-year period.

Religious Organizations

LEAGUE OF THE SACRED HEART

The League of the Sacred Heart and Apostleship of Prayer is the oldest organization at the University of Scranton; it was founded in 1906 and at that time aggregated to the central office of the League. Membership is open to all Catholic students. The League has for its purpose to foster among its members a sincere devotion to the Sacred Heart and, by the union of its members in prayer, to make reparation for sin and promote the apostolic work of the Church. Regular meetings are held on the first Friday of the month at 8:45 A. M. Rev. James A. Martin, S.J., *Moderator.*

Student Officers: *General Promoter,* Michael Perillo, '49; *Major Promoters,* Patrick J. Boylan, '49; Leonard Modzelesky, '49; John F. Bartkowski, '49.

THE SWORDSMEN

The Swordsmen (The Sodality of Our Lady), under the primary title of the Immaculate Conception and with Saint Aloysius Gonzaga as its secondary patron, was founded at the University of Scranton on December 6, 1942, with the approval of the Bishop of Scranton and subsequently aggregated to the Roman Prima Primaria Sodality. Its object is to foster filial devotion to the Mother of Christ and the practice of virtue and piety among its members. Regular weekly meetings are held on Tuesday. The activities of the Swordsmen embrace: Weekly Sodality Mass, daily Rosary devotion in October, daily May devotions, operating a Pamphlet Rack Library, hospital welfare work, joint meetings with various other Catholic Colleges in Mariology, and conducting social and sports programs. Rev. James A. Martin, S.J., *Moderator.*

Student Officers: *President,* James J. Furey, '51; *First Vice-President,* Thomas Prokop, '51; *Second Vice-President,* Daniel F. White, '50; *Secretary,* Robert A. Ormsby, '51; *Treasurer,* Thomas L. Carney, 50.

College Organizations

PURPOSE

The University of Scranton encourages extracurricular organizations as important factors in collegiate life, developing the social side of a student's character, exercising his abilities and furnishing opportunities for the development of initiative and leadership. These activities are part of the life of the collegiate community and ought to be part of the life of every student. Therefore, every student will be urged to participate in one or more of these activities to the extent that his scholastic standing will permit.

ALPHA SIGMA NU

Alpha Sigma Nu is a National Honor Society with chapters in various Jesuit Colleges and Universities throughout the United States. It is a society organized to honor students who have distinguished themselves in scholarship, service and loyalty to their college. Candidates are drawn from the Junior Class and are nominated by the local chapter, which also certifies the qualifications of the nominees. Those who are approved by the President of the University and the Dean are elected members and initiated into the organization.

STUDENT COUNCIL

The management of extracurricular and social activities at the University is placed in the hands of the Student Council. The range of its duties includes the preparation of the social calendar, the running of assemblies, the supervision of elections, the initiation and promotion of all kinds of student endeavor and the observance of college traditions.

The Student Council is composed of the President of the student body, the class presidents, a representative of each extracurricular activity, the moderator and one lay professor of the faculty. Regular weekly meetings are held for the conduct of ordinary business. Rev. Arthur A. North, S.J., *Moderator*; Mr. Francis C. Brown, *Assistant Moderator.*

GLEE CLUB

The University Glee Club affords students with sufficient vocal talent an opportunity for practice in choral singing. During the course of the year a series of concerts is presented. Mr. Edward F. O'Shea, S.J., *Moderator*; Mr. Harold Mundy, *Director*.

THE UNIVERSITY BAND

The University Band was organized in September, 1931. Any student with an aptitude for music is eligible for membership in the band. The band plays at many of the athletic and extra-curricular activities held in connection with the various University exercises and gives occasional concerts. Mr. Francis R. Scherer, S.J., *Moderator*.

INTERNATIONAL RELATIONS CLUB

The International Relations Club was founded in 1938 in order to promote a more intensive study of international problems and to gain a clearer understanding of international relations. Open forum discussions are held twice each month and occasional radio broadcasts are given by members of the forum. Joint meetings with the Marywood International Relations Club are held periodically. The forum is affiliated with the international relations clubs of the Carnegie Foundation for International Peace. Mr. Francis X. Gerrity, *Moderator*.

POLITICAL SCIENCE CLUB

The Political Science Club is composed of students who are actively interested in the nature, functions and problems of our American government. It conducts seminars and debates on current issues and runs model legislatures, both state and national. The emphasis is on active student initiative and participation on projects that are real issues for the country at large.

The club is affiliated with the Intercollegiate Conference on Government which is composed of representatives from all the major institutions of higher learning in the Commonwealth of Pennsylvania. Each year the Conference sponsors a meeting of all its units, usually in Harrisburg, where the students simulate model legislatures, model constitutional or nominating conventions, or model United Nations

Assembly. In addition radio forums and joint meetings with other northeastern colleges are sponsored by the club. Dr. Clarence C. Walton, *Moderator*; Mr. Timothy Scully, *Assistant Moderator*.

COUNCIL OF DEBATE

The University of Scranton Debating Society consists of two sections, the first of which is restricted to Freshman students, who serve their apprenticeship in debating during the course of their first year. The second section opens its membership to the Sophomore, Junior and Senior students, who have served apprenticeship in the Freshman section, or have otherwise proved themselves capable of formal and informal discussions in public.

Both divisions afford their members numerous opportunities to train themselves in public speech and informal debate. A schedule of intercollegiate debates employs several teams of debaters from each of the two sections. Mr. Bernard J. Lavin, S.J., *Moderator*.

THE AQUINAS

The Aquinas is a newspaper published twice a month during the course of the school year by the students of the University. Its purpose is to foster the development of literary expression among the students, to afford a practical training in Journalism and to chronicle the events of University life. Rev. John A. Jacklin, S.J., *Moderator*.

THE WINDHOVER

The Windhover is the annual Year Book publication of the students of the University. Its aim is to serve as a record of the school year and as a memorial of the Senior Class.

THE PHYSICS CLUB

The Physics Club is primarily an organization for those students who are majoring in the science of Physics. The membership is also open to those who are studying Physics and wish to extend their understanding of this science. The purpose of the Physics Club is to afford the members opportunities to become more familiar with the activities of physicists, the applications of physical principles and the outstanding developments in the field of physics. Dr. Joseph P. Harper, *Moderator*.

LE CERCLE FRANCAIS

The Cercle Francais is open to all students of the University who are particularly interested in increasing their proficiency in the use of the French language.

The club activities stress the importance of French culture in the development of modern society. Weekly meetings conducted in French are devoted to discussions of various phases of French civilization and literature. The Cercle encourages the exchange of letters with French and Canadian correspondents, and sponsors occasional guest speakers. Dr. Edward M. Corbett, *Moderator.*

DEUTSCHER KREIS

The Deutscher Kreis is an association composed of students of the German language. Its practical goal is to promote the use of German in informal conversation and to awaken interest in German literature, culture and civilization. Rev. Joseph Beleckas, S.J., *Moderator.*

THE LOYOLIANS

The objectives of the organization are to acquaint the members with the written and spoken language and to study the life, literature and culture of the Spanish-speaking countries. All students taking Spanish are eligible for the Club. The annual Spanish Fiesta is the organization's outstanding social event of the year. Frank A. Cimini, *Moderator.*

UNIVERSITY PLAYERS

The Undergraduate Dramatic Society of the University of Scranton is the University Players, under whose sponsorship the program of University Dramatic Productions on stage and radio is presented. Membership in the University Players is restricted to students who have taken active part in the annual productions on stage and radio. Freshmen serve as apprentice members during their first year. Actual participation in the program of productions, however, is not limited exclusively to members of the University Players, but is open to all students of the University Day and Evening classes. Meetings of the University Players are held weekly, and consist of a planned program of lectures and discussions on playwriting, stagecraft, production and design. Rev. R. F. Grady, S.J., *Moderator.*

THE ART CLUB

The acquisition of solid principles of judgment and the formation of mature taste in art appreciation is the goal of this activity which meets weekly to study and discuss the various schools of art through their most representative painters. Each meeting is directed by a member of the club who gives an informal talk on the life, technique and significance of a chosen painter. This is followed by a group study of the painter's works in color reproduction or in slides. Mr. Robert E. O'Brien, S.J., *Moderator.*

THE BUSINESS CLUB

The University of Scranton Business Club is an organization composed of graduates and students of the University who are interested in Business Administration and Accounting. The object of this club is to give the business student closer contacts with actual business practices and to acquaint him personally with both local and national business executives and firms.

Meetings are held each week in the Business Building and each month a dinner meeting is held at which prominent guest speakers from the fields of business and economics are presented to the club. Field trips to local and distant industries are another activity of this organization. Mr. John P. McLean, *Moderator.*

THE OUT-OF-TOWN CLUB

Founded in 1947, this club is designed to aid the student from out of town in supplementing the regular extracurricular activities at the University with special programs of an intellectual, artistic or social nature to meet his special needs. Rev. James A. Harley, S.J., *Moderator.*

ATHLETIC ASSOCIATION

In addition to governing and promoting intercollegiate competition in athletic games the association provides a program of physical training and intramural sports for the student body. Rev. John J. Coniff, S.J., *Faculty Manager.* Frank J. O'Hara, *Graduate Manager.* Peter A. Carlesimo, *Coach of Football and Director of Physical Education.*

ALUMNI ASSOCIATION

The University Alumni Association has been formed to perpetuate friendships formed at the University, to foster among its members a spirit of loyalty to their Alma Mater and to extend the influence and advance the interests of the University. Regular meetings and reunions are held from time to time as prescribed in the rules and by-laws of the association. Right Rev. Msgr. Patrick J. Boland, *Honorary President*; Frank J. O'Hara, *President*; Rev. Stanley J. Kolucki, *First Vice-President*; James G. Hopkins, *Second Vice-President*; Attorney Vance L. Eckersley, *Secretary*; Attorney Francis P. Valverde, *Treasurer*; Joseph T. Diskin, *Executive Secretary*.

Scholarships

Among the many needs of the University none is of more importance than the foundation of scholarships to meet the increasing number of requests from students of exceptional ability, who without financial aid are unable to secure the advantages of a college education. To found a full scholarship requires the sum of $15,000; partial scholarships can also be established by smaller gifts. Each scholarship will bear and perpetuate the name of the donor or the person designated by him. All scholarships, full or partial, are accepted with the understanding that the income from the sum will be the amount applicable to the holder of the scholarship.

The student in possession of a scholarship will be required to maintain an average of at least "C" in all his courses and to observe all other scholastic and disciplinary regulations of the University. Failure to do so entails forfeiture of the scholarship. Students holding a partial scholarship will pay the amounts their scholarships fall short of the full tuition. Books, fees and other incidental expenses are not included in any scholarship. The following scholarships are available:

UNIVERSITY SCHOLARSHIPS

The University offers fifteen scholarships of the value of $200 each to deserving students.

PURPLE CLUB SCHOLARSHIPS

Fourteen scholarships of the value of $150 each are annually awarded by the Purple Club. The Board of Directors of the Purple Club selects the students to whom these scholarships are awarded.

THE STRIVERS' CLUB SCHOLARSHIPS

Four scholarships of an annual value of $200 each, awarded to Hebrew students who attain the highest grades in a competitive examination.

GIFTS AND BEQUESTS

Gifts to the University may take the form of funds for the establishment of scholarships or professorships; or the foundation of medals and other prizes; of additions to the material equipment;

of collections of educational value; of contributions to the general fund, or may be undesignated. Those desiring to make a bequest to the University of Scranton may be helped by the following suggested form:

FORM OF BEQUEST

I give (devise) and bequeath to the University of Scranton, an institution incorporated under the laws of the Commonwealth of Pennsylvania and located in Scranton, Pennsylvania, and its successors forever the sum of.....dollars (or otherwise describe the gift) for its general corporate purposes (or name a particular corporate purpose).

Evening and Summer Sessions

The University offers the use of its facilities to adult groups who are unable to attend the regular day sessions but who wish either to complete studies for a degree or to broaden and refresh their acquaintance with various fields of knowledge without seeking a degree. To meet their needs courses of study are conducted during the summer and in the evening from 6:30 to 10:00 o'clock. The courses which are offered are taught by members of the University faculty; and the instruction which is given will be the exact counterpart of the courses offered during the regular day sessions.

A candidate for the degree of Bachelor of Arts or Bachelor of Science in the evening and summer sessions must satisfy the requirements for admission and the same standards of scholarship as the students in the day sessions. The curriculum for a degree comprises one hundred and thirty-two semester hours of college studies, of which thirty-two at least must be completed in regular course at the University.

Each candidate is obliged to complete at least one year of residence prior to the final examination for the degree: a residential year supposes the completion of a minimum of thirty-two semester hours at the University. Students working for a degree are required to follow the prescribed sequence in certain courses, and must have their program of studies for each year approved by the Dean. Teachers in service may earn a maximum of six credit hours per semester in the evening sessions. All students who intend to do practice teaching must notify the Director of Practice Teaching at least three months prior to the practice teaching period.

The Summer School courses will run for eight weeks; the lecture and laboratory work will be so arranged that credit for one semester's work may be given in the courses taken. Students, at the discretion of the Dean, may be permitted to pursue courses in the Summer Session for the purpose of obtaining advanced standing. Students who are delinquent in any course are required to attend the summer sessions to make up their deficiencies.

ANNUAL COMMENCEMENT
UNIVERSITY OF SCRANTON

June Sixth, Nineteen Hundred Forty-eight

Program

Processional—Algerian March ..... *Saint-Saens*

Star Spangled Banner ..... Audience

Invocation—Veni Creator ..... The Graduates

President's Address..... The Very Reverend J. Eugene Gallery, S.J.

Conferring of Honors..... The President of the University

First Honors of the Academy of Saint Thomas Aquinas:
His Excellency
The Most Reverend Patrick A. O'Boyle, D.D.
Archbishop of Washington

First Honors of the Academy of Saint Andrew Bobola:
His Excellency
The Most Reverend Henry T. Klonowski, S.T.D.
Titular Bishop of Daldis and
Auxiliary Bishop of Scranton

Selection—Intermezzo from Naila ..... *Delibes*

CONFERRING OF DEGREES

Address to the Graduates
His Excellency, The Most Reverend Patrick A. O'Boyle, D.D.
Archbishop of Washington

Apostolic Benediction
His Excellency, The Most Reverend William J. Hafey, D.D.
Bishop of Scranton

Recessional—The Stars and Stripes..... *Sousa*

DEGREE CANDIDATES — JUNE, 1948

GRADUATED WITH HIGHEST HONORS

Charles Leroy Beckel, B.S.

GRADUATED WITH HONORS

John Joseph Antal, B.S.	*Magna cum laude*
Paul Joseph Cimoch, B.S.	*Magna cum laude*
John James Clarke, B.A.	*Cum laude*
Leonard Paul Cummings, B.S.	*Cum laude*
Robert P. Duggan, B.A.	*Cum laude*
Paul Francis Dunleavy, B.S.	*Cum laude*
Matthew Charles Farrell, B.A.	*Magna cum laude*
Eugene Thomas Fontinell, B.A.	*Cum laude*
John Robert Gavin, B.S.	*Cum laude*
William John Griglock, B.S.	*Cum laude*
Gunther Henry Griwatz, B.S.	*Cum laude*
Henry Edwin Hagy, B.S.	*Magna cum laude*
John J. F. Holmes, B.S.	*Magna cum laude*
Monroe Myron Jurkowitz, B.S.	*Magna cum laude*
Jerome Klein, B.S.	*Cum laude*
Paul Richard Kuchar, B.S.	*Magna cum laude*
Joseph John Loferski, B.S.	*Magna cum laude*
Robert John Luchi, B.S.	*Magna cum laude*
Jerome John Maurizi, B.S.	*Cum laude*
William James McGrath, Jr., B.S.	*Cum laude*
William Joseph McKeone, B.S.	*Cum laude*
Murray Jerome Lonstein, B.S.	*Cum laude*
Frank Harold Mechler, B.S.	*Cum laude*
John Joseph Moran, B.S.	*Cum laude*
Alexander Vincent Orlando, B.S.	*Cum laude*
George Perosh, B.A.	*Cum laude*
Alfred Harvey Reich, B.S.	*Cum laude*
Julius Segal, B.S.	*Cum laude*
William Aloysius Shea, B.A.	*Cum laude*
Anthony Felix Taraskiewicz, B.A.	*Cum laude*

BACHELOR OF ARTS

Major: Classics and Literature

Joseph John Adonizio
Joseph Charles Amato
John Joseph Burok
John James Clarke
Robert P. Duggan
Matthew Charles Farrell
Eugene Thomas Fontinell
Paul Joseph Higgins
Gerard Francis Joyce
James Patrick Law
George Perosh
James Francis Ruddy
William Aloysius Shea
Anthony Felix Taraskiewicz
Joseph Michael Tierney
Joseph Narcis Tylenda
Joseph Vanko

BACHELOR OF SCIENCE

Major: Social Studies

Samuel Ferdinand Ackourey
John Joseph Brazil
Theresa Mary Brown
Elmer Angelo Cianni
John Anthony Conboy
Orlando Rocco Costello
William Durdon
Stephen Leo Durkin
Joseph Francis Dutka
John Joseph Fendrock
Eugene William Finnan
Joseph Patrick Flaherty
Philip Joseph Genova
John Goosley, Jr.
Charles Harold Greene
Irene Ethel Guest
Donald Christian Haines
John Joseph Hazur
Stephen Kaplan
Francis J. Kelleher
Francis Joseph Kelleher
Joseph John Kilcullen
Eugenia Louise Kimble
John Francis Lally
Peter Forve Leighton
Murray Jerome Lonstein
Matthew Aloysius Lynch
Eugene James McCloskey
John Leo McCloskey
Katherine Anne McDade
William James McDonald
Joseph John McFadden
Edgar Michael McNamara
Ralph John Mercuri
Frank Louis Messoline
Howard S. Miller
Anthony Thomas Morano
Molly Lucille Noone
Thomas Lawrence Notchick
Joseph Anthony Palermo
Andrew Matthew Pokusa
Paul Howard Price
Alice Ann Ratchford
Charles Rosati
Julius Segal
Joseph George Sobeski
Thomas Adam Szymczak
Robert Thomas Taylor
Thomas A. Tinsley
Joseph A. Tosti
Louis J. Volpicelli
John Joseph Walsh
John Michael Wargo
George Albert Yavorek

BACHELOR OF SCIENCE

Major: Physical and Biological Sciences

Charles Joseph Abbott
Arthur Woodruff Alexander
John Joseph Antal
Calvin George Aulisio
Henry William Bartholomay
Charles Leroy Beckel
Daniel Thomas Berney
William Jerome Carroll
Donald Lee Carter
George Cheston Chandlee
Paul Joseph Cimoch
James P. Comerford
Peter Joseph Comerota
Bernard Matthew Covalesky
Joseph Gregory Crotti
John Edward DeAntonio
Alfred Aron Edelsohn
Russell Joseph Eden
Daniel Thomas Erhard
John Robert Gavin
Joseph Edward Grady
William John Griglock
Gunther Henry Griwatz
George Robert Habeeb
Henry Edwin Hagy
Robert John Hickey
John J. F. Holmes
Carl John Kern
Jerome Klein
Frank Henry Krayer
Joseph John Loferski
Robert John Luchi
Leonard Anthony Mancini
Raymond Thomas Manning, Jr.
Dennis Martin
Jeorme John Maurizi
Eugene Aloysius McGinnis
William James McGrath, Jr.
William Joseph McKeone
Joseph Francis McNulty
Henry Francis Melenkevitz
John Joseph Moran
Albert Paul Morgan
Frederick Haydn Morgan
Arlindo Camilo Nunes
Alexander Vincent Orlando
Paul Augustine Ryan
Harry Eugene Smith
Harry Alan Spangenberg
Robert Grant Turano
Joseph Anthony Wolski
John Richard Wullert
Eugene Myron Wysochansky
Raymond Francis Zambito
Gennaro James Zangardi

BACHELOR OF SCIENCE

Major: Business Administration

John Francis Bean
Norman Paul Brauer
Francis R. Burne
Stanley Bernard Chmiel
Leonard Paul Cummings
William Emlyn Davis
Balty Carmen D'Orio
Paul Francis Dunleavy
Homer Miller Everett
John George Fallat
Samuel Joseph Gelso
Thomas John Jones
Monroe Myron Jurkowitz
Francis Vincent Kashuda
John Dudley Kearney
James Aloysius Kelly
Frank Gerald Kettle
Paul Richard Kuchar
Frank E. Kurdziel
Joseph John Lefcoski
Frank Xavier Mangan
Joseph James McGeever
Frank Harold Mechler
Michael Anthony Podrasky
John Thomas Pruzinsky
Alfred Harvey Reich
Anthony Richelmi
Irving Benjamin Schecter
John Joseph Smith
Richard Michael Stack
Thomas Francis Walsh, Jr.
John Bernard Waltos
Gerald Prendergast Wolf
Bernard Benedict Wroblewski

HIGH SCHOOL REPRESENTATION

Two hundred and seventy-five high schools had representatives at the University of Scranton in 1948-1949

John Adams High School ..... New York, N. Y.
Alliance High School ..... Alliance, Ohio
Altoona Catholic High School ..... Altoona, Pa.
Ambler High School ..... Ambler, Pa.
Aquinas Institute ..... Rochester, N. Y.
Archbald High School ..... Archbald, Pa.
Asbury Park High School ..... Asbury Park, N. J.
Ashland High School ..... Ashland, Pa.
Ashley High School ..... Ashley, Pa.
Assumption High School ..... Southbridge, Mass.
Atlantic City High School ..... Atlantic City, N. J.
Avoca High School ..... Avoca, Pa.
Baldwin High School ..... Baldwin, N. Y.
Bangor High School ..... Bangor, Pa.
Barrett Township High School ..... Mt. Pocono, Pa.
Benton High School ..... Bentown Township, Pa.
Benton Vocation High School ..... Fleetville, Pa.
Berwick High School ..... Berwick, Pa.
Binghamton Central High School ..... Binghamton, N. Y.
Blair Academy ..... Blairstown, N. J.
Blakely High School ..... Blakely, Pa.
Blossburg High School ..... Blossburg, Pa.
Blythe High School ..... Philadelphia, Pa.
Blythe Township High School ..... Silver Creek, Pa.
Bradford High School ..... Bradford, Pa.
Bridgeton High School ..... Bridgeton, N. J.
Bristol High School ..... Bristol, Pa.
Brooklyn Academy ..... Brooklyn, N. Y.
Brooklyn Preparatory School ..... Brooklyn, N. Y.
Brooklyn Technical High School ..... Brooklyn, N. Y.
Butler High School ..... Riverdale, N. J.
Carbondale High School ..... Carbondale, Pa.
Cardinal Hayes High School ..... New York, N. Y.
Catasauqua High School ..... Catasauqua, Pa.
Cathedral High School ..... Flushing, N. Y.
Cathedral High School ..... Syracuse, N. Y.
Central High School ..... Santurce, Puerto Rico
Central High School ..... Scranton, Pa.
Chaminade High School ..... Chaminade, N. Y.
Charlotte Hall ..... Charlotte Hall, Md.
Cheltenham High School ..... Philadelphia, Pa.
Chester High School ..... Chester, Pa

Evander Childs High School	New York, N. Y.
Clarks Summit High School	Clarks Summit, Pa.
Henry Clay High School	Lexington, Kentucky
Clearfield High School	Clearfield, Pa.
DeWitt Clinton High School	New York, N. Y.
Coal Township High School	Coal Township, Pa.
Collegio America High School	Peru
Collegio Centro America High School	Managua, Nicaragua
Collegio Ponce High School	Puerto Rico
Collegio San Jose High School	Puerto Rico
Columbian High School	Park Ridge, N. J.
Christopher Columbus High School	Bronx, N. Y.
J. W. Cooper High School	Shenandoah, Pa.
Coughlin High School	Wilkes-Barre, Pa.
Danville High School	Danville, Pa.
Davis High School	Mt. Vernon, N. Y.
Delahanty High School	Jamaica, L. I., N. Y.
Dickinson High School	Jersey City, N. J.
Dickson City High School	Dickson City, Pa.
Dolgeville High School	Dolgeville, N. Y.
Drake High School	New York, N. Y.
Dunmore High School	Dunmore, Pa.
Dupont High School	Dupont, Pa.
Duryea High School	Duryea, Pa.
East Orange High School	East Orange, N. J.
East Side High School	Newark, N. J.
Edwardsville High School	Edwardsville, Pa.
Elmira Free Academy	Elmira, N. Y.
Elmira Catholic High School	Elmira, N. Y.
Elmira High School	Elmira, N. Y.
Emmett High School	Emmett, Idaho
Endicott High School	Endicott, N. Y.
Exeter High School	Exeter, Pa.
Falls-Overfield High School	Falls, Pa.
Admiral Farragut Academy	Pine Beach, N. J.
Fell Township High School	Fell Township, Pa.
Fordham Preparatory School	New York, N. Y.
Forest City High School	Forest City, Pa.
Forest Hills High School	Forest Hills, N. Y.
Fork Union Military Academy	Fork Union, Virginia
Fountain Valley School	Fountain Valley, Pa.
Frackville High School	Frackville, Pa.
Frankfort High School	Frankfort, N. Y.
Freeland High School	Freeland, Pa.
Freeland M & M Institute	Freeland, Pa.

G.A.R. Memorial High School ..... Wilkes-Barre, Pa.
Germantown High School ..... Philadelphia, Pa.
Gilberton High School ..... Gilberton, Pa.
Girard College ..... Girard, Pa.
Great Bend High School ..... Great Bend, Pa.
Greenburgh High School ..... White Plains, N. Y.
Green-Dreher High School ..... Greentown, Pa.
Greenpoint High School ..... Greenpoint, N. Y.
Grossmont Union High School ..... Grossmont, Cal.
Hackettstown High School ..... Hackettstown, N. J.
Hallstead High School ..... Hallstead, Pa.
Hamiltown Township High School ..... Bloomsburg, Pa.
Hanover High School ..... Hanover, Pa.
Hanover Township High School ..... Hanover Township, Pa.
Warren G. Harding High School ..... Warren, Ohio
Harford High School ..... Harford, Pa.
Harper High School ..... Chicago, Ill.
Harrison High School ..... Harrison, N. J.
Haverstraw High School ..... Haverstraw, N. J.
Hawley High School ..... Hawley, Pa.
Hazle Township High School ..... Lattimer, Pa.
Hazleton High School ..... Hazleton, Pa.
Hillside High School ..... Hillside, N. J.
Hollidaysburg High School ..... Hollidaysburg, Pa.
Holy Rosary High School ..... Scranton, Pa.
Honesdale High School ..... Honesdale, Pa.
Hughestown High School ..... Hughestown, Pa.
Immaculate Conception High School ..... Lock Haven, Pa.
Jamaica High School ..... Jamaica, N. Y.
Thomas Jefferson High School ..... Brooklyn, N. Y.
Jenkins Township High School ..... Jenkins Township, Pa.
Jermyn High School ..... Jermyn, Pa.
Jessup High School ..... Jessup, Pa.
Johnson City High School ..... Johnson City, N. Y.
Johnson School ..... Dickson City, Pa.
Keiser High School ..... Keiser, Pa.
Kingston High School ..... Kingston, Pa.
Kulpmont High School ..... Kulpmont, Pa.
Lafayette High School ..... New York, N. Y.
Lafayette High School ..... Brooklyn, N. Y.
Lake Vocational High School ..... Lake Ariel, Pa.
Larksville High School ..... Larksville, Pa.
LaSalle High School ..... Philadelphia, Pa.
LaSalle Institute ..... Troy, N. Y.
Laurel Hill Academy ..... Susquehanna, Pa.

Long Beach High School ..... Long Beach, N. Y.
Long Branch High School ..... Long Branch, N. J.
Carson Long Institute ..... New Bloomfield, Pa.
Long Island High School ..... Elmhurst, N. Y.
Luzerne High School ..... Luzerne, Pa.
James Madison High School ..... Brooklyn, N. Y.
Mahanoy City High School ..... Mahanoy City, Pa.
Malvern Preparatory School ..... Malvern, Pa.
Marymount High School ..... Wilkes-Barre, Pa.
Mauch Chunk Catholic High School ..... Mauch Chunk,Pa.
Mayaguez High School ..... Puerto Rico
Mayfield High School ..... Mayfield, Pa.
McAdoo High School ..... McAdoo, Pa.
Meyers High School ..... Wilkes-Barre, Pa.
Midwood High School ..... Brooklyn, N. Y.
Milford High School ..... Milford, Connecticut
Millard Preparatory School ..... Washington, D. C.
Minooka High School ..... Minooka, Pa.
Montesano High School ..... Montesano, Wash.
Mooseheart High School ..... Aurora, Ill.
Moosic High School ..... Moosic, Pa.
Moscow High School ..... Moscow, Pa.
Mt. Carmel Catholic High School ..... Mt. Carmel, Pa.
Mt. Carmel High School ..... Mt. Carmel, Pa.
Nanticoke High School ..... Nanticoke, Pa.
New Milford High School ..... New Milford, Pa.
Newport Township High School ..... Newport Township, Pa.
Newton High School ..... Newton, Mass.
Newtown High School ..... Newtown, Pa.
New Utrecht High School ..... Philadelphia, Pa.
New York City High School of Commerce ..... New York, N. Y.
Nicholson High School ..... Nicholson, Pa.
Northeast Catholic High School ..... Philadelphia, Pa.
Northeast High School ..... Philadelphia, Pa.
North Plainfield High School ..... North Plainfield, N. J.
Northside High School ..... Westboro, Mass.
Norwich Free Academy ..... Norwich, Conn.
Notre Dame Academy ..... Chattanooga, Tenn.
Nutley High School ..... Nutley, N. J.
Old Forge High School ..... Old Forge, Pa.
Olyphant High School ..... Olyphant, Pa.
Ottumwa High School ..... Augusta, Ga.
Our Lady, Queen of Peace High School ..... North Arlington, N. J.
Palmer High School ..... Palmerton, Pa.
Passaic High School ..... Passaic, N. J.

Peekskill Military Academy	Peekskill, N. Y.
Wm. Penn High School	Harrisburg, Pa.
Pittston High School	Pittston, Pa.
Pittston Township High School	Pittston Township, Pa.
Pittsburgh Central High School	Pittsburgh, Pa.
Plainfield High School	Plainfield, N. J.
Plains High School	Plains, Pa.
Pleasant Mount High School	Pleasant Mount, Pa.
Plymouth High School	Plymouth, Pa.
Port Carbon High School	Port Carbon, Pa.
Pottsville Catholic High School	Pottsville, Pa.
Pottsville High School	Pottsville, Pa.
Preston High School	Preston, Pa.
Pringle High School	Pringle, Pa.
Reading Central Catholic High School	Reading, Pa.
Roosevelt High School	Keiser, Pa.
Theo. Roosevelt High School	New York, N. Y.
Rush High School	Rush, Pa.
Sacred Heart High School	Scranton, Pa.
San Luis Obispo Senior High School	Obispo, Cal.
Saugerties High School	Saugerties, N. Y.
Sayre High School	Sayre, Pa.
School of Industrial Arts	New York, N. Y.
Scott Township High School	Scott Township, Pa.
Scranton Preparatory School	Scranton, Pa.
Seton Hall Preparatory School	South Orange, N. J.
Sewanhaka High School	Bellerose, N. J.
Seward Park High School	New York, N. Y.
Shamokin High School	Shamokin, Pa.
Shenandoah Catholic High School	Shenandoah, Pa.
Shenandoah High School	Shenandoah, Pa.
Shickshinny High School	Shickshinny, Pa.
Somerville High School	Somerville, N. J.
South Scranton Catholic High School	Scranton, Pa.
South Philadelphia High School	Philadelphia, Pa.
Southern Division High School	Milwaukee, Wis.
Springfield High School	Springfield, Pa.
St. Ann's High School	Scranton, Pa.
St. Agnes' High School	Elmhurst, N. Y.
St. Augustine High School	Brooklyn, N. Y.
St. Benedict's Preparatory School	Newark, N. J.
St. Cecelia's High School	Scranton, Pa.
St. Edward's High School	Shamokin, Pa.
St. Francis De Sales High School	Utica, N. Y.
St. Francis Prep School	Williamsport, Pa.

St. Gabriel's High School ..... Hazleton, Pa.
St. James' High School ..... St. James, Md.
St. John's High School ..... Scranton, Pa.
St. John's High School ..... Pittston, Pa.
St. Joseph's High School ..... Oil City, Pa.
St. Joseph's High School ..... Philadelphia, Pa.
St. Leo's High School ..... Ashley, Pa.
St. Mary's High School ..... Scranton, Pa.
St. Mary's High School ..... Elizabeth, N. J.
St. Mary's High School ..... Niagara Falls, N. Y.
St. Mary's High School ..... Wilkes-Barre, Pa.
St. Nicholas' High School ..... Wilkes-Barre, Pa.
St. Patrick's Academy ..... Binghamton, N. Y.
St. Patrick's High School ..... Scranton, Pa.
St. Patrick's High School ..... Olyphant, Pa.
St. Paul's High School ..... Scranton, Pa.
St. Peter's High School ..... Staten Island, N. Y.
Sts. Philip & James High School ..... Phillipsburg, N. J.
St. Raphael's High School ..... Pawtucket, R. I.
St. Rose's High School ..... Carbondale, Pa.
St. Vincent's High School ..... Plymouth, Pa.
Steelton High School ..... Steelton, Pa.
Stroudsburg High School ..... Stroudsburg, Pa.
Stuyvesant High School ..... Stuyvesant, N. Y.
Sugar Notch High School ..... Sugar Notch, Pa.
Swoyerville High School ..... Swoyerville, Pa.
Taylor High School ..... Taylor, Pa.
Technical High School ..... Scranton, Pa.
Thompson High School ..... Thompson, Pa.
Throop High School ..... Throop, Pa.
Tamaqua High School ..... Tamaqua, Pa.
Towanda High School ..... Towanda, Pa.
Union-Endicott High School ..... Endicott City, N. Y.
Union High School ..... Union City, N. J.
Upper Moreland High School ..... Upper Moreland, Pa.
Valley Forge Military Academy ..... Valley Forge, Pa.
Vandling High School ..... Vandling, Pa.
Waverly High School ..... Waverly, Pa.
Wellsboro High School ..... Wellsboro, Pa.
Wells High School ..... Chicago, Ill.
West Hazleton High School ..... West Hazleton, Pa.
West Mahanoy Township High School ..... West Mahanoy Township, Pa.
West Pittston High School ..... West Pittston, Pa.
West Philadelphia Catholic High School ..... Philadelphia, Pa.
West Scranton High School ..... Scranton, Pa.

West Wyoming High School ..... West Wyoming, Pa.
White Haven High School ..... White Haven, Pa.
Wilmington High School ..... Wilmington, Delaware
Wyoming High School ..... Wyoming, Pa.
Wyoming Seminary ..... Kingston, Pa.
Xavier High School ..... Richmond Hills, N. Y.

REGISTRATION

SENIOR II

Ackourey, Paul P.....Scranton
Alai, Edward B. .....Scranton
Archer, John J.....Scranton
Balish, Daniel .....Scranton
Bartkowski, John F.....Dickson City
Bernardi, Ralph E.....Scranton
Bielinski, Theodore C.....Dickson City
Boland, John .....Scranton
Brown, Paul M.....Scranton
Burdick, Donald W.....Carbondale
Burke Donald E.....Scranton
Cahill, Herbert F.....Binghamton, N. Y.
Camarca, William M.....Scranton
Capone, Anthony J.....Yatesville
Cefaly, John .....Ashley
Chase, William F.....Scranton
Collura, Joseph J.....Carbondale
Cummings, Joseph D.....Scranton
DeNoia, Michael V.....Hazleton
Ferrence, John .....Peckville
Flanagan, Harold T.....Scranton
Forrester, John F.....Scranton
Gardier, Robert W.....Scranton
Gennity, George T.....Junedale
Gerrity, Joseph P.....Scranton
Gillen, Justin F.....Binghamton, N. Y.
Giordina, James N.....Pittston
Golden, Owen H.....Avoca
Gribbin, Frank J.....Dunmore
Hadad, Salem J.....Scranton
Harris, Donald P.....Scranton
Hart, Paul F.....Avoca
Havrilla, Joseph J.....Hazleton
Henley, Thomas J.....Scranton
Jay, Grover B.....Scranton
Jonas, Ernest E.....Scranton
Kelly, Gerald J.....Binghamton, N. Y.
Klepadlo, Leo J.....Wilkes-Barre
Kowalski, Stanley E.....Dickson City
Kuschel, Charles J.....West Pittston
LaVassar, Joseph P...Johnson City, N. Y.
Lebowitz, Allen B.....Taylor
Loftus, William J.....Olyphant
Mahoney, Neil P.....Wilkes-Barre
Malinak, Michael P.....Dunmore
Malone, William T.....Dunmore
Martini, Henry A.....Dunmore
Matybell, John L.....Scranton
McAndrew, John F.....Dunmore
McHale, Thomas .....Scranton
Montone, William R.....Wilkes-Barre
Moskovitz, Donald .....Scranton
Moskovitz, Max .....Scranton
Moskovitz, Sheldon .....Dickson City
Mullen, Thomas E.....Scranton
Musgrave, Robert J.....Scranton
O'Brien, William .....Scranton
Patrick, Paul A.....West Wyoming
Powell, Richard E.....Throop
Price, David W.....N. Caldwell, N. J.
Prociak, Myron .....Plains
Raffelt, Edward J.....Scranton
Raffelt, Joseph .....Scranton
Ratchford, Harold .....Scranton
Reed, William J.....Pittston
Remetta, John J.....Dunmore
Reynolds, Frederic H.....Scranton
Rizzo, Jaspar J.....Pittston
Robbins, Robert G.....Scranton
Rodney, William S.....Scranton
Romanovich, Peter .....Peckville
Shufler, Morris .....Scranton
Soberick, Thomas .....Freeland
Sobleskie, Anthony .....Olyphant
Sweeney, John F.....Olyphant
Tiberio, Thomas A.....Scranton
Walsh, John J.....Scranton
Walsh, Joseph F.....Scranton
Ward, John J.....Wilkes-Barre
Waters, Paul F.....Pittston
White, Bert W.....Scranton
Zimmerman, Robert .....Scranton

SENIOR I

Alfano, Victor J.....Scranton
Baldwin, Bartholomew .....Scranton
Banick, Cyril J.....Dunmore
Barrett, Robert M.....Dunmore
Baumgartner, Robert..Binghamton, N. Y.
Berendt, Raymond D.....Simpson
Becker, Robert .....Carbondale
Bickmeyer, Arthur .....Elmhurst, N. Y.
Bosak, Vincent .....Olyphant
Bottei, Louis A.....Old Forge
Boyd, Francis J.....Scranton
Boylan, Patrick J.....Wilkes-Barre
Boylan, Robert J.....Scranton
Bradley, John T.....Scranton
Brady, Joseph E.....Luzerne
Brennan, John J.....Carbondale
Brown, Thomas M.....Wilkes-Barre
Brown, William E.....Wilkes-Barre

Brundage, John W.....Scranton
Budzinski, Chester J.....Dupont
Burke, John J.....Olyphant
Burke, Joseph D.....Wilkes-Barre
Burton, David H.....Oil City
Bush, Joseph .....Scranton
Bushinski, Alfred .....Dickson City
Cardiello, Anthony R.....Old Forge
Casciano, Anthony J.....Scranton
Casey, Edward J.....Archbald
Cawley, John F.....Scranton
Chapa, Henry S.....Scranton
Chelland, Francis J.....Scranton
Chmiel, Felix J.....Moosic
Chmiel, Richard J.....Moosic
Clancy, Joseph P.....New York, N. Y.
Coleman, Eugene .....Scranton
Coleman, Hugh .....Rushville
Collier, James P.....Olyphant
Connery, Vincent L.....Scranton
Cook, Francis J.....West Pittston
Coviello, Conio J.....Dunmore
Cuff, Patrick J.....Dunmore
Culkin, John J.....Scranton
Curtin, James G.....Scranton
Cusick, Owen P.....Scranton
Cwiklik, John C.....Glen Lyon
Czernik, Thomas M.....Scranton
Davis, Walter T.....Scranton
Davis, William J.....Scranton
Delevan, Harry R.....Waverly
DelRosso, Joseph N.....Scranton
Devenney, James A.....Mauch Chunk
DeVita, Anthony P.....Old Forge
Donovan, Paul K.....Scranton
Donnelly, Paul C.....Throop
Doran, Francis A.....Avoca
Dougherty, Donald D.....Dunmore
Dougherty, James L.....Nanticoke
Douglass, James B.....Scranton
Dubin, Bernard M.....Scranton
Duffy, John P.....Binghamton, N. Y.
Duffy, Kenneth J.....Wilkes-Barre
Ehrlich, Howard L.....Scranton
Elko, Michael .....Plains
Falkowsky, Carl .....Scranton
Farrell, Paul A.....Scranton
Feeney, Paul J.....Plymouth
Feeney, Thomas .....Scranton
Fennie, William J.....Olyphant
Felinski, William .....Scranton
Flanagan, Thomas C.....Pittston
Flannery, Joseph X.....Jessup
Fleischer, Eli .....Wilkes-Barre
Flynn, Paul J.....Blakely
Foley, Thomas J.....Wilkes-Barre
Frattali, August F.....Scranton
Furiosi, Philip .....Scranton
Gabello, William A.....Old Forge
Gardner, John T.....Scranton
Gentilezza, Angelo F.....Scranton
Ghilardi, Joseph P.....Peckville
Golden, Thomas J.....Carbondale
Goldman, George I.....Dunmore
Golomb, Stanley .....Pittston
Gren, Anthony M.....Hilldale
Gretzula, Andrew A.....Throop
Gruss, Edward F.....Throop
Grysavage, Edward J.....Ashley
Guyette, Edward W.....Trucksville
Hart, John A.....Scranton
Hayne, Harry B.....Hawley
Hoyes, George F.....Peckville
Healey, Joseph G.....Scranton
Holverson, Harmon E.....Emmett, Idaho
Hoppel, Charles J.....Scranton
Hordesky, Emil T.....Carbondale
Hricko, Andrew R.....Dickson City
Hunt, William C.....Avoca
Hysick, Vincent M.....Trasckow
Jones, Franklin .....Taylor
Jones, Warren .....Scranton
Jurgiewicz, Bernard J.....Dickson City
Kamenetsky, Samuel .....Scranton
Keegan, John T.....Scranton
Kelly, Francis V.....Avoca
Kenigan, Lee A.....Kingston
Kowalski, Ernest F.....Scranton
Krafsig, John J.....Harrisburg
Kreis, Albert A.....Dunmore
Kunec, John A.....Plains
Lafferty, William J.....Scranton
LaPorta, Donald A.....Scranton
Liberatore, Palmer .....Jessup
Lichak, Steven J.....Dunmore
Lipski, Walter A.....Scranton
Loftus, Thomas P.....Pittston
Long, Francis P.....Wilkes-Barre
Lynott, Joseph F.....Scranton
Maciejewski, Edward .....Scranton
Magnotta, Frederick .....Scranton
Malaker, Jerome .....Blakely
Mancuso, Eugene .....Carbondale
Mancuso, Frank T.....Carbondale
Matle, Frank J.....Luzerne
McAndrews, James P.....Archbald
McAndrew, William P.....Scranton
McCarthy, Joseph L.....Elmira, N. Y.
McCawley, Frank X.....Scranton
McCutcheon, James D.....Scranton
McDonald, Joseph P.....Dunmore
McDonough, Bernard M.....Scranton
McGowan, John P.....Scranton
McKeone, William J.....Forty Fort

Meenan, Edward J.....Scranton
Mihok, George F.....Taylor
Miles, Elvin G.....Peckville
Miller, Richard S.....Wilkes-Barre
Minkoff, Harry .....Luzerne
Minsavage, Edward .....Hazleton
Modzelesky, Leonard .....Scranton
Moir, Norman .....Scranton
Morris, Joseph J.....Scranton
Mulligan, Michael .....Wilkes-Barre
Mundy, John H.....Kingston
Murphy, Donald J.....Scranton
Murray, William J.....Scranton
Nadler, Samuel .....Scranton
Naples, Charles J.....Pittston
Nealon, John P.....Scranton
Notari, Joseph J.....Scranton
O'Dea, Thomas R.....Dalton
Oglethorpe, Thomas .....Scranton
Olds, Walter J.....Buffalo, N. Y.
O'Malley, Gerard F.....Scranton
Ondek, Andrew P.....Blakely
Orr, William J.....Scranton
Pacropis, William G.....Wilkes-Barre
Pann, John J.....Old Forge
Payton, Richard J.....Clarks Summit
Perrige, William .....Hawley
Perugini, Edward .....Scranton
Petras, Adam .....Old Forge
Petrshin, Michael .....New York, N. Y.
Pisko, Stephen .....Scranton
Pregmon, Michael .....Duryea
Price, George .....Scranton
Penetar, Ralph J.....Dunmore
Quinn, William A.....Scranton
Reardon, Joseph M.....Avoca
Regan, Edward J.....Olyphant
Revitt, Stanley .....Wilkes-Barre
Reynar, John H.....Carbondale
Richardson, James F.....Scranton
Romanczyk, Stanley J.....Dickson City
Rosetti, Lawrence V.....Jessup
Ruane, Thomas F.....Scranton
Russin, Edmund B.....Carbondale
Salmon, Maurice P.....Scranton
Saxon, Harry .....Scranton
Schadt, Daniel C.....Lake Ariel
Schalk, William T.....Scranton
Scoblick, Armine J.....Archbald
Schockloss, Joseph .....Luzerne
Shorten, Fred J.....Scranton
Sieroslowski, Stanley A.....Hazleton
Sitko, William V.....Scranton
Skowronski, Thomas F.....Duryea
Slowey, Gerald D.....Scranton
Smith, Joseph M.....Scranton
Sopchak, Wassel P.....Simpson
Sopkia, Stephen J.....Scranton
Spager, Frank C.....Olyphant
Spitzer, John J.....Scranton
Stoko, Michael J.....Dunmore
Sullivan, William J.....Dunmore
Tama, Lawrence .....Towanda
Tannenbaum, Gerald .....Scranton
Thomas, Donald R.....Scranton
Tisko, Thomas F.....Larksville
Tomasky, Edward J.....Simpson
Walker, Patrick J.....Scranton
Walker, Thomas F.....Olyphant
Walsh, John E.....Scranton
Ward, Thomas A.....Wilkes-Barre
Wastella, Patrick J.....Old Forge
Weckel, William J.....Wilkes-Barre
Weissberger, Allen .....Taylor
Westcott, Charles .....Scranton
Whalley, James J.....Scranton
Witt, Stanley A.....Wilkes-Barre
Worth, Harry M.....Wilkes-Barre
Wroblewski, Arthur S.....Duryea
Wykoski, Donald P.....Throop
Yanoshat, William .....Scranton
Yourishin, George .....Hazleton
Zigment, Anthony J.....Scranton
Zuckerman, Harvey.....Brooklyn, N. Y.

JUNIOR II

Adams, Henry W.....Minooka
Baranowsky, Leonard C.....Frackville
Bartol, Donald .....Hazleton
Belardi, Piero E.....Peckville
Bennett, Paul A.....Minooka
Boldrini, Elvio .....Eynon
Burke, John J.....Carbondale
Cambardella, Joseph A.....Old Forge
Campbell, Eugene F.....Olyphant
Capozza, Peter N.....Old Forge
Cardoni, Edwin R.....Scranton
Carroll, Gerard B.....Carbondale
Clancy, Eugene .....Archbald
Connerton, Robert J.....Scranton
Cooper, Herbert S.....Scranton
Cummings, Joseph G.....Dunmore
Cummings, Joseph J.....Inkerman
Davis, William J.....Scranton
Derbin, Chester J.....Scranton
Drewicz, Thomas J.....Wilkes-Barre
Duggan, Robert C.....Scranton
Fabrio, Joseph T.....Scranton
Favini, Marcel Peter.....Scranton
Foderaro, Anthony H.....Scranton

Geroulo, Michael J.....Scranton
Green, George W.....Scranton
Gromlich, John W.....Scranton
Harowitz, Filmore S.....Scranton
Hoppel, Robert G.....Scranton
Hricko, Michael J.....Dickson City
Hynak, Stephen P.....Olyphant
Joyce, Joseph M.....Scranton
Kanavy, Cletus C.....Scranton
Knowles, Robert J.....Scranton
Kranick, Francis X.....Dunmore
Kutzar, Paul .....Scranton
Lakin, Harold .....New York, N. Y.
Law, Andrew .....Scranton
Lester, William J.....Scranton
Lubin, Joseph D.....Wilkes-Barre
MacDonald, Robert J.....Scranton
Marrazzo, Eugene J.....Dunmore
Marrazzo, Rudy .....Dunmore
McCann, Thomas E.....Scranton
Menaker, Joseph T.....Scranton
Mooney, Vincent R.
Jackson Heights, N. Y.
Moylan, Robert F.....Scranton
Mozell, Thomas M.....Scranton
Mudrock, Robert J.....Scranton
Netter, James C.....West Pittston
Notartomas, Pasqual .....Scranton
Oram, Melvin .....Scranton
Parrella, Nicholas .....Exeter
Peters, Leonard .....Pittston
Robert, Joseph .....Forest City
Rogan, Gene M.....Carbondale
Rzoncki, Henry R.....Avoca
Sabatini, Frank P.....Plains
Senio, Peter .....Jermyn
Sisson, Paul T.....Scranton
Stanavage, Joseph P.....Scranton
Tedesco, Orlando P.....Scranton
Vitaletti, Roland D.....Dunmore
Wallace, Joseph E.....Scranton
Walsh, Joseph V.....Scranton
Walters, John C.....Scranton
Weeks, Lester J.....Scranton
Wildes, Jerome .....Olyphant
Zaladonis, Joseph J.....Duryea

Junior I

Acquisto, Anthony .....Carbondale
Adams, Robert J.....Philadelphia
Adrian, Howard J.....West Pittston
Allgood, Warren G.....Clarks Summit
Anderson, Paul .....Scranton
Anderson, Theodore J.....Wyoming
Apothaker, Martin .....Philadelphia
Arnovitz, Harold .....Scranton
Avery, Robert W.....Carbondale
Baisden, Carl F.....Hawley
Baroff, Harry .....Scranton
Bartek, Joseph P.....Ford City
Barton, Bernard .....Scranton
Battle, Joseph E.....Scranton
Batyko, Paul G.....Scranton
Beatty, Joseph B.....Philadelphia
Belardi, Albert A.....Scranton
Bellaflores, Frank
Mayaguez, Puerto Rico
Bentivegna, Joseph .....Dunmore
Biedlingmaier, Gerard .....Scranton
Blochberger, Charles H.....Kingston
Bonk, Edward J.....Scranton
Borowski, Stanley S.....Waymart
Borys, Frank J.....Olyphant
Bowen, John D.....Binghamton, N. Y.
Brady, James T.....Elizabeth, N. J.
Brabitis, Peter P.....Plymouth
Brooks, Robert J.....Scranton
Brown, Edgar H.....Honesdale
Brown, William J.....Scranton
Browning, Robert M.....Fleetville
Brozdowski, Frank J.....Blakely
Brutico, Carmen A.....Old Forge
Buckley, James J.....Scranton
Burda, Bernard .....Swoyerville
Burke, Bernard A.....Wilkes-Barre
Burke, Frank X.....Scranton
Burke, Stanley J.....New Philadelphia
Burns, John J.....Carbondale
Burns, William J.....Scranton
Buziuk, John J.....Wilkes-Barre
Callahan, John J.....Old Forge
Campagna, Richard S.....Scranton
Capozzelli, John B.....Lattimer Mines
Carey, Thomas J.....Wilkes-Barre
Carney, Thomas L.....Erie
Carter, Robert F.....Havertown
Cascio, Carmel F.....Scranton
Casella, Alexander .....Scranton
Casey, Thomas W.....West Pittston
Castellano, Joseph .....Scranton
Catalano, Michael A.....Scranton
Cerra, Angelo J.....Carbondale
Chapnen, Pericles T.....Scranton
Charnogursky, Ambrose G.....Dunmore
Check, James M.....Blakely
Cherundolo, Joseph .....Old Forge
Chmiel, Andrew R.....Moosic
Chwastiak, John H.....Frackville
Cieless, John J.....Avoca
Colangelo, Domenick .....Dunmore

Comeno, Joseph F.....Carbondale
Comitz, Edmund J.....Sugar Notch
Conaboy, John R.....Scranton
Connors, George H.....Pittston
Conway, James E.....Dunmore
Cott, Chester R.....Taylor
Crofton, Francis .....Scranton
Cullen, Thomas F.....Scranton
Cully, Thomas G.....Throop
Cupple, Peter P.....Scranton
Cusick, James J.....Dunmore
Cusick, William F.....Scranton
Dardes, Matthew .....Pittston
Davis, John R.....Old Forge
DeBlasi, Dominic .....Hazleton
Delaney, John J.....West Pittston
DelPriore, Ray .....Pittston
DelToro, Anthony .....Bronx, N. Y.
Dempsey, William J.....Scranton
DePaulo, Joseph A.....Scranton
DeStefano, Andrew J.....Scranton
DeStefano, Joseph M.....Scranton
Dick, Michael .....Jessup
DiLuzio, Nicholas R.....Hazleton
DiRomualdo, Pasco .....Hazleton
Donnelly, Joseph L.....Archbald
Donovan, Edward .....Scranton
Doria, Martin .....Scranton
Dorner, John M.....Conklin, N. Y.
Douglass, Robert E.....Scranton
Doyle, Edward J.....Carbondale
Dudley, William L.....Wilkes-Barre
Duffy, Walter M.....Old Forge
Dumoff, Harold .....Duryea
Dunleavy, Joseph .....Avoca
Dziadkowica, Leonard .....Forest City
Dzik, Joseph .....Scranton
Edwards, Charles A.....South Sterling
Ellenbogen, Robert .....Scranton
Ermolovich, Nicholas .....Old Forge
Esposito, Frank J.....Scranton
Evans, Carl T.....Trucksville
Evans, George .....Wilkes-Barre
Farrell, Gerard .....Archbald
Fath, George A. .....Pittston
Feenick, John J.....Wilkes-Barre
Fendrick, David .....Scranton
Fenstermacher, William R.....Scranton
Ferrario, John J.....Scranton
Ferry, Neal J.....Hazleton
Fetcho, Arthur J. .....Childs
Finkelstein, Manuel .....Scranton
Finnan, Francis J.....Avoca
Fitzsimmons, Frank X.....Scranton
Flanagan, Wilbur L.....Scranton
Flom, Walter H.....Brooklyn, N. Y.
Foote, Roland .....Archbald
Fotusky, Martin J.....Forest City
Franke, Irwin .....Brooklyn, N. Y.
Friedman, David .....Dickson City
Friedman, Robert .....Kingston
Freis, Gene T.....Vandling
Fritz, Fred A.....Wilkes-Barre
Gallagher, William E.....Dunmore
Garramone, Pasco L.....Hazleton
Gaven, John A.....Scranton
Gelb, Joseph D.....Glen Lyon
Gennaro, John N.....Hazleton
Gentile, Fred .....Throop
Georgetti, Alfred F.....Plains
Germain, Peter D.....Ashley
Gilevich, John J.....Throop
Gilligan, William H.....Scranton
Gilroy, John P.....Scranton
Ginsburg, Burton L.....Scranton
Goeckel, William F.....Wilkes-Barre
Graboski, Edward T.....Duryea
Graham, Arthur J.....Dickson City
Greenfield, Clarence L.....Scranton
Gribb, Anthony E.....Nanticoke
Gribbin, John M.....Dunmore
Gutterman, Gerald S.....Wilkes-Barre
Hare, William T.....Olyphant
Hartley, Alan R.....Wilkes-Barre
Hass, Louis F.....Scranton
Hayner, Frank S.....Scranton
Hennigan, Thomas J.....Pittston
Hickey, Eugene F.....Scranton
Hickey, Thomas G.....Scranton
Hizney, George W.....Pittston
Hodowanec, Gregory .....Scranton
Hoeschele, David .....Kingston
Hoffecker, Charles G.....Scranton
Holl, Robert E.....Scranton
Hope, Joseph S.....Scranton
Hopkins, Carl E.....Scranton
Horan, Harry J.....Scranton
Huddy, Richard P.....Scranton
Hup, Ferdinand .....Scranton
Hyman, Allan .....West Pittston
Iacobino, Matthew .....Scranton
Intoccia, Gaeton A.....Scranton
Jennes, Joseph A.....Dickson City
Jones, Harry W.....Scranton
Jones, Norman Robert.....Scranton
Jordan, William V.....Scranton
Joyce, Robert J.....Minooka
Judd, Irwin M.....Scranton
Judge, John J.....Dunmore
Kabatchnick, Neil B.....Scranton
Kaminski, Norbert J.....Atlas
Krandel, William A.....Scranton
Kane, Joseph A.....Kingston
Kaplan, Pete .....Windber

Kasson, Harry F.....Susquehanna
Keeley, John J.....Wilkes-Barre
Keib, George F.....Avoca
Kelly, Douglas J.....Scranton
Kelly, John D.....Scranton
Kelly, Thomas J.....Scranton
Kennedy, John M.....Simpson
Kilinskas, Francis A.....Scranton
Killino, Benjamin F.....Old Forge
Kinney, Philip J.....Scranton
Klein, Howard .....Scranton
Klepac, Ferdinand M.....Wilkes-Barre
Kmetz, James F.....Nanticoke
Knuth, Martin W.....Scranton
Kojtek, Alfred .....Duryea
Kondrat, Charles T.....Olyphant
Konopka, Leo H.....Dickson City
Kopack, Francis M.....Scranton
Koschak, George .....Scranton
Kosloski, Clement L.....Plymouth
Kosmicki, Richard J.....Elmira, N. Y.
Kotula, Frank J.....Dupont
Kozol, Adam J.....Old Forge
Kraemer, Harry M.....Scranton
Kraynak, Matthew E.....Scranton
Kubasko, Paul E.....Throop
Kuchar, Daniel S.....Scranton
Lamberti, Knovel .....Old Forge
Lander, Marvin S.....Wilkes-Barre
Langan, John F.....Scranton
Latonick, Leo W.....Pittston
Latzanich, John .....Dunmore
Lavelle, Thomas P.....Avoca
Lefkowitz, Gerald B.....Wilkes-Barre
Lefkowitz, Maurice .....Scranton
Lehman, Donald C.....Wilkes-Barre
Leighton, Jack C.....Wilkes-Barre
Leitinger, Leo M.....Jermyn
Lenihan, John J.....Scranton
Lenzer, Stanley A.....Scranton
Leoni, Eugene P.....Wilkes-Barre
Levey, James H.....Pittston
Levin, Sidney .....Springfield
Licata, Joseph .....Pittston
Loftus, Edward .....Moosic
Loftus, James J.....Scranton
Loll, Thomas .....Elmira, N. Y.
Long, Melvin .....Sugarloaf, R. D. 1
Lonsdorf, James J.....Scranton
Loomis, James W.....Scranton
Lopatofsky, George J.....Uniondale
Loveland, William R.....Scranton
Luby, Joseph J.....Scranton
Lucas, Robert E.....Duryea
Luczkovich, John .....Carbondale
Ludgate, John C.....Scranton
Lukowiak, Luke L.....Plains
Lynch, Gerard W.....Scranton
Lynott, Robert J.....Scranton
Lynott, William T.....Scranton
Mabey, John H.....Scranton
Maceyko, Edward J.....Jessup
Magnotta, Frank A.....Scranton
Makowski, John B.....Edwardsville
Malina, John J.....Taylor
Malski, Charles .....Dickson City
Manello, Joseph B.....Wilkes-Barre
Mangan, Thomas W.....Wilkes-Barre
Mann, John .....Scranton
Marshall, Robert T.....Scranton
Martino, Anthony J.....Carbondale
Marusak, Joseph P.....Beaver Meadows
Mastri, Paul .....Scranton
Matchick, Andrew.....Beaver Meadows
Mathias, Hector J.....Scranton
Matsko, George J.....Plains
Mattes, John V.....Scranton
Matylewicz, Robert .....Scranton
McCormick, John F.....Blakely
McDonald, James T.....Wilkes-Barre
McElhenney, Cornelius J.....Hazleton
McGarry, Joseph P.....Scranton
McGeehan, Patrick J.....Hazleton
McGraw, Leo J.....Scranton
McGuire, John J.....Scranton
McGuire, Thomas F.....Scranton
McKelvey, Charles J.....Hazleton
McKinney, J. Winston.....Scranton
McLaine, William G.....Scranton
McLaughlin, Joseph P.....Philadelphia
McLaughlin, Michael A.....Scranton
McLaughlin, Robert J.....Archbald
McLean, Frank A.....Scranton
McNally, Edward J.....Scranton
McNamara, Dermot J.....Scranton
Meehan, Thomas .....Towanda
Megargee, S. Guy.....Waverly
Meyers, Joseph M.....Scranton
Miller, Joseph A.....Wilkes-Barre
Milligan, Robert E.....Carbondale
Millus, Albert J.....Forest City
Moore, Morton M.....Lake Ariel
Moroski, Thomas L.....Scranton
Morton Robert J.....Avoca
Muchnicki, Edward .....Scranton
Mudrick, Joseph J.....Simpson
Muir, Walter D.....Dunmore
Mullaney, John J.....Pottsville
Mullen, John D.....Archbald
Mullen, Leo P.....Scranton
Mundy, Edward .....Kingston
Murphy, James E.....White Haven
Murphy, John A.....Newton Hills, Mass.
Murphy, John J.....Dunmore

Murphy, Joseph P.....Scranton
Murphy, Robert E.....Collegeville
Myers, Henry H.....Scranton
Nagle, Elvin R.....Wilkes-Barre
Nagy, John B.....Scranton
Nappi, Patrick S.....Scranton
Nealon, Donald P.....Scranton
Nealon, Leo A.....Scranton
Nemetz, Paul J.....Scranton
Nolan, Gerald P.....Scranton
Novak, Frank L.....West Pittston
O'Brien, James W.....Scranton
O'Connor, Dennis .....Jessup
O'Connor, Joseph D.....Scranton
O'Donnell, Robert .....Scranton
O'Hara, James P.....Scranton
O'Hara, John F.....Scranton
O'Horo, James F.....Scranton
Olah, John H.....Scranton
O'Malley, William .....Moosic
Orsini, Anthony D.....Scranton
Oshinski, John L.....Shamokin
Ozovek, John J.....Duryea
Padden, Frank J.....Scranton
Panaci, Albert W.....Scranton
Pann, Anthony R.....Old Forge
Pappas, James T.....Nicholson
Pelachick, Nicholas .....Cumbola
Pentecost, James W.....Peckville
Perrillo, Michael.....New Haven, Conn.
Perry, Arthur F.....Dunmore
Petroziello, Guy R.....Pittston
Piatkowski, Edward .....Forest City
Pittinger, Edward J.....Wilkes-Barre
Pizzimenti, Pasquale L.....Mayfield
Pletcher, William F.....Scranton
Plonsky, Frank J.....Scranton
Polizzi, Anthony C.....Dunmore
Poller, H. Leonard.....Scranton
Price, Peter E.....Scranton
Prompovitch, Michael R.....Scranton
Propper, Sidney .....Scranton
Pugliese, John M.....West Pittston
Pytel, Joseph L.....Duryea
Quigg, Richard .....Clarks Summit
Rachman, David J.....Scranton
Reese, Noel P.....Chinchilla
Reilly, John J.....New York, S. Y.
Ritch, Donald E.....Scranton
Ritterbeck, Robert P.....Scranton
Roche, Francis J.....Scranton
Rolka, Francis J.....Dickson City
Rossi, Frank A.....Scranton
Roulette, William U.
Shawnee-on-Delaware
Ruane, Vincent T.....Hawley
Rudin, Norman H.....Scranton
Rusnok, William .....Scranton
Ruzbarsky, Joseph J.....Dunmore
Saidel, Israel .....Scranton
St. Ledger, Robert.....Carbondale
Saley, Albert .....Scranton
Salsburg, Mark .....Scranton
Samuel, Frederick .....Scranton
Sands, Robert G.....Scranton
Savage, George S.....Scranton
Savo, Joseph A.....Olyphant
Schellhammer, John L.....Beaver Brook
Schemel, Robert J.....Archbald
Schmitt, Richard F.....Wilkes-Barre
Schultz, Herbert W.....Scranton
Scoda, Raymond J.....Duryea
Scott, James M.....Scranton
Sedlak, Paul .....Archbald
Senyk, Basil M.....Scranton
Shayka, Edward .....Dickson
Shedlock, Joseph .....Duryea
Sheran, Bernard F.....Lost Creek
Sherhenovich, Richard .....Pittston
Shibley, George J.....Scranton
Shufler, Simeon L.....Scranton
Shulman, L. Howard.....West Pittston
Silvestri, Bruno P.....Peckville
Simon, Charles .....Scranton
Sirotnak, Eugene .....Throop
Sirotnak, Francis .....Throop
Skettino, Anthony .....Scranton
Smith, Daniel .....Scranton
Smith, Henry F.....Elmira, N. Y.
Smith, Otis F.....Moscow
Sochocki, Leonard R.....Dickson City
Solomon, Frank .....Throop
Speicher, Forrest P.....Plymouth
Speshock, Michael .....Lake Ariel
Spinelli, Joseph A.....Scranton
Sporko, Joseph P.....Scranton
Stein, William J.....Scranton
Stocknock, Walter A.....Old Forge
Surdoval, James F.....Carbondale
Sweeney, Thomas J.....Olyphant
Sweeney, Walter J.....Brackney
Swerz, Charles .....Throop
Swirbel, John B.....Tresckow
Tabone, Leonard J.....Pittston
Taraskiewicz, Stanley F.
Norwich, Conn.
Taschman, George .....Scranton
Tates, Robert .....Scranton
Tofany, Benedict F.....Scranton
Trelc, Anthony P.....Forest City
Twomey, Patrick J.....Bronx, N. Y.
Tyminski, Henry H.....Scranton
Tyrrell, William R.....Carbondale
Utan, Edwin .....Scranton

Vallow, Morton J.....Philadelphia
Valvano, Guy T.....Dunmore
Vaxmonsky, John J.....Pittston
Veranko, Benjamin .....Throop
Wagner, Calvin J.....Keiser
Wagner, Richard E.....Scranton
Walker, James W.....Susquehanna
Walk Kenneth, ...West Pittston
Wallace, Robert E.....Scranton
Walsh, Francis P.....Scranton
Walsh, Raymond J.....Ashley
Walsh, Robert E.....Scranton
Walsh, Robert M.....Scranton
Walsh, Thomas J.....Scranton
Weaver, Joseph A.....East Plymouth
Weir, Paul J.....Clarks Green
Weis, William C.....Wilkes-Barre
Wert, James A.....Clarks Summit
Whalen, John F.....Hallstead
White, Daniel Francis
Larchmont, N. Y.
White, Edward .....Scranton
Whitford, Walter H.....Dalton
Wiercinski, Alex .....Dickson City
Wilce, Robert T.....Carbondale
Wildes, Edward M.....Wilkes-Barre
Wolak, Andrew T.....Dupont
Woodeshick, Henry D.....Wilkes-Barre
Wright, John P.....Scranton
Yanushka, John P.....Duryea
Yaron, John .....Throop
Yuhas, Jose, h C.....Duryea
Yurkanin, Andrew .....Tresckow
Yurkanin, Joseph .....Scranton
Zahorsky, Chester E.....Scranton
Zaleski, Edward J.....Throop
Zelna, Benjamin .....Archbald
Zeshonsky, Henry J.....Olyphant
Zielinski, Frank E.....Dupont
Ziemba, Leonard M.....Carbondale
Zucosky, Bartley J.....Scranton
Zynel, Stanley Z.....Wilkes-Barre

Sophomore I

Acculto, C. Joseph.....Scranton
Acquadro, Edward .....Old Forge
Alles, Rollen .....Scranton
Allman, Robert J.....Scranton
Alvear, Carlos.....Los Angeles, Cal.
Ambrose, Joseph .....Tamaqua
Angerson, Vito .....Dunmore
Applegate, Alfred....Hackettstown, N. J.
Arteaga, Julio .....Puerto Rico
Badger, William P.....Jermyn
Baldino, Joseph J.....Carbondale
Baldwin, John A.....Scranton
Balish, William .....Scranton
Barrett, John D.....Scranton
Barrowcliff, Robert L.....Scranton
Becker, Edward J.....Mt. Carmel
Bedas, John J.....Dickson City
Beechko, Nicholas .....Jessup
Begay, Joseph .....Scranton
Beirne, Daniel K.....Towanda
Benvenuto, James .....Shamokin
Berge, William H.....Dalton
Berkowitz, Albert .....Brooklyn, N. Y.
Berryman, Jack M.....Scranton
Best, William F.....West Pittston
Betterly, Donald .....Scranton
Bird, Joseph F.....Scranton
Bird, Thomas J.....Scranton
Birbeck, Joseph W.....Moosic
Bisignani, Alfred .....Peckville
Boland, Charles A...Washington, D. C.
Bolger, John J.....Newark, N. J.
Bollard, Joseph R.....Olyphant
Borr, Edward .....Pittston
Bradican, William F.....Scranton
Bradley, Joseph P.....Mt. Carmel
Brazen, John .....Scranton
Brennan, Thomas J.....Scranton
Brindock, Joseph .....Ebervale
Bronk, Daniel A.....Shenandoah
Bronzo, John .....Scranton
Browning, Roy R.....Fleetville
Burke, James D.....Dunmore
Burke, Paul T.....Scranton
Butler, John J.....Hazleton
Buydos, Joseph .....Scranton
Campagna, Eugene .....Scranton
Casey, Gerald J.....Carbondale
Casey, Thomas .....Dunmore
Castanzo, George J.....Scranton
Cathrall, John B.....Scranton
Cathrall, Holmes .....Scranton
Ceres, Emilio R.....Peckville
Cerwonka, Paul L.....Carbondale
Cetta, Anthony R.....Scranton
Chamorro, Julio.....Managua, Nicaragua
Chellis, Joseph .....Scranton
Chmielak, Albert .....Glen Lyon
Coles, John S.....Scranton
Coll, William .....Hazleton
Collins, Joseph F.....Olyphant
Condefer, William T.....Moosic
Conmy, Thomas .....Scranton
Connerton, Gerard .....Scranton
Connolly, John F.....Bronx 61, N. Y.
Connors, Paul J.....Scranton

Connors, Francis J.....Scranton
Conroy, John L.....Pittston
Consagra, John A.....Mayfield
Cook, John J.....Scranton
Corcoran, Thomas .....Westboro, Mass.
Cosgrove, James A.....Carbondale
Cramer, William A.....Park Ridge, N. J.
Crosby, John J.....Phillipsburg, N. J.
Cryan, John S.....Scranton
Cullinan, William E.....Scranton
Curtin, Eugene .....Scranton
Czerwiec, Chester .....Jermyn
Danchak, Raymond .....Simpson
Dardes, Michael .....Pittston
Davis, Floyd .....Peckville
Davis, Ronald G.....Scranton
Deignan, James .....Scranton
Deignan, William R.....Scranton
Dende, Raymond .....Scranton
Derwinski, Leo .....Simpson
DiLorenzo, James P.....Pittston
Dinegar, Robert A...Flushing, L. I., N. Y.
Dirlam, Charles .....Carbondale
Dolphin, Thomas J.....Scranton
Dorak, John J.....East Plymouth
Doran, Bernard J.....Wilkes-Barre
Dorsey, Donald J.....Scranton
Dougherty, James F.....Scranton
Dragun, Francis J.....Philadelphia
Duane, Thomas A...Flushing L. I., N. Y.
Duffy, Joseph A.....Dunmore
Duggan, William T.....Scranton
Dunleavy, Martin J.....Scranton
Dunn, John J.....Scranton
Dutka, Frank .....Olyphant
Edelen, Richard .....East Orange, N. J.
Eisele, Richard .....Scranton
Estock, Frank J.....Kingston
Evans, John .....Kingston
Famularo, Anthony .....Scranton
Farley, Gerald A.....Carbondale
Farrell, John .....Wilkes-Barre
Fata, Angelo J.....Bronx, N. Y.
Fedele, Mario A.....Scranton
Fendrock, Augustine .....Simpson
Ferguson, Peter J.....Shenandoah
Filipek, Edmund E.....Dickson City
Fischer, Francis .....Endicott, N. Y.
Fisher, Herbert K.....Philadelphia
Flynn, Albert J.....Scranton
Fomous, Michael B.....Sayre
Foster, Robert L.....Wilkes-Barre
Friday, Richard L.....Kingston
Furey, James J.....Scranton
Furey, John W.....Scranton
Gallagher, Charles .....Wilkes-Barre
Gallagher, Eugene J.....Scranton
Gallagher, Gordon V.
Binghamton, N. Y.
Gallagher, Robert R.....Scranton
Gartner, James A.....Wilkes-Barre
Gelchis, Michael V.....Frackville
Genovese, Carl .....Scranton
Gerhard, Thomas C.....Forest Hills, N. Y.
Gildea, Francis G.....Kingston
Gillespie, John P.....Scranton
Giordano, Vito .....Scranton
Griffith, Richard D.....Scranton
Gordon, Kenneth A.....Taylor
Gratkowski, Gabriel .....Scranton
Graziano, Joseph A.....Factoryville
Grigutis, Ignatius .....Kingston
Gryczko, Peter P.....Dupont
Halton, William L.....Lattimer Mines
Harrington, Joseph .....Olyphant
Harris, Albert .....Scranton
Heffernan, Leo F.....Gouldsboro
Heffron, John F.....Scranton
Heilig, James .....Scranton
Hennigan, Donald J.....Dunmore
Hockenberry, James H.....Scranton
Hogan, Robert E.....Scranton
Holevinski, Steven .....Moscow
Hosko, Michael .....Scranton
Howe, Paul T.....Lake Ariel
Howell, James J.....Pittston
Hudacs, Robert .....Scranton
Hummler, Herbert S.....Scranton
Hutchins, Jack H.....Peckville
Jacobs, Harris S.....Scranton
Jacques, John R.....Forest City
Janoski, Fred B.....Hazleton
Jeffrey, John E.....Dunmore
Johnson, Carl I.....Bradford
Joyce, Michael F.....Avoca
Joyce, Patrick J.....Scranton
Judge, James P.....Scranton
Kacergis, Joseph J.....Shenandoah
Kaloss, William A.....Elmhurst, N. Y.
Kane, John P.....Susquehanna
Kane, Richard .....Scranton
Kapushinski, Clement .....Mt. Carmel
Karanik, George E.....Scranton
Kardelis, Anthony .....Chicago, Ill.
Kareiva, Charles T.....Scranton
Karmolinski, Eugene S.....Dickson City
Kase, Raymond F.....Carbondale
Katzman, Howard.....Plainfield, N.J.
Kearney, Austin .....Archbald
Kearney, Francis E.....Dalton
Keating, Joseph A.....West Pittston
Kelchner, George A.....Kingston
Kelly, Charles F.....Wilkes-Barre
Kelly, John A.....Ozone Park, N. Y.

Kelly, Thomas ..... Scranton
Kennedy, Daniel J..... Elmira, N. Y.
Kennedy, Gerald P..... Minooka
Keslowsky, Joseph ..... Scranton
Kicera, Stanley ..... Mayfield
Kiesel, Stephen E..... Throop
Kilonsky, Anthony F..... Forest City
Kilonsky, Francis A..... Forest City
Kircher, Charles A..... Pittston
Kizis, Albert E..... Alderson
Klapps, Pete P..... Sugar Notch
Kline, Ben ..... Dalton
Knight, Stephen ..... Plains
Kobylski, Edward P..... Kingston
Kocsis, George J..... Dunmore
Kohut, William R..... Scranton
Kopa, John J..... Mayfield
Koval, Paul J..... Edwardsville
Kranick, Ronald J..... Dunmore
Kreis, Robert A..... Scranton
Krulock, Joseph ..... Keiser
Lafay, Adam ..... Wilkes-Barre
Laganosky, Thomas ..... Freeland
Lahoda, Joseph ..... Thompson
Lally, William ..... Scranton
Lavelle, Paul M..... Scranton
Lawrence, George W..... Hamlin
Lawryk, John ..... Wilkes-Barre
Lebida, Joseph ..... Dickson City
Lebowitz, Armond H..... Scranton
Leo, Charles P..... Scranton
Lewis, Benjamin ..... Scranton
Lewis, Frank M..... Scranton
Lowry, Robert ..... Scranton
Lucas, Andrew F..... Duryea
Luchowski, Chester ..... Scranton
Lukasik, Frank C..... Jermyn
Lynn, John F..... Jermyn
Lynott, Jerome W..... Scranton
Magalski, Edward A..... Simpson
Maldonado, Gerardo
Santurce, Puerto Rico
Malone, Alfred J..... Scranton
Malski, Walter J..... Dickson City
Marchiony, Robert J..... Forest City
Marciano, Rudolph D..... Scranton
Marinos, Louis P..... Wyoming
Marshall, Charles L..... Hawley
Martin, Paul ..... Scranton
Mastrianni, Frank J..... Alliance, Ohio
Matak, Sylvester A..... Mocanaqua
Mattern, Robert M..... Scranton
Matushik, Edward P..... Throop
Mauer, Clarence C..... Scranton
Maxham, David J..... High Bridge, N. J.
McAndrew, James V..... Scranton
McAvoy, Joseph H..... Wilkes-Barre
McCormack, Leo ..... Scranton
McCormick, Austin ..... Scranton
McCormick, James P.
Johnson City, N. Y.
McCrae, William..... West Orange, N. J.
McDade, John P..... Scranton
McDonough, John J..... Carbondale
McDowell, J. Kenneth..... Scranton
McDowell, Robert P..... Mt. Carmel
McGill, Francis E..... Philadelphia
McGowan, Joseph T..... Scranton
McGrath, Philip P..... Scranton
McGraw, Joseph T..... Carbondale
McGraw, Robert E..... Dunmore
McGraw, Thomas P..... Wilkes-Barre
McKeever, John J..... Scranton
McMahon, Robert A..... Syracuse, N. Y.
McNally, Michael J..... Scranton
McNamara, Michael G..... Scranton
Medvecky, Peter..... Elmhurst, L. I., N. Y.
Melker, Jack ..... Brooklyn, N. Y.
Melley, Thomas C..... Beaver Meadows
Merrick, Robert ..... Scranton
Merrigan, William J..... Wilkes-Barre
Mika, Gaza H..... Old Forge
Mileti, Edward ..... Bronx, N. Y.
Miskel, William ..... Brooklyn, N. Y.
Mondati, Peter ..... Peckville
Montoro, John J..... Scranton
Moran, Thomas C..... Scranton
Morano, Edward A..... Scranton
Moser, Gene W..... White Mills
Moskovitz, Sheldon ..... Dickson City
Moyer, John J..... Scranton
Muchnicki, Charles C..... Scranton
Mulderig, Joseph W..... Scranton
Munley, Robert ..... Scranton
Murray, Robert J..... Elmira, N. Y.
Myslinski, Stanley F..... Pottsville
Nadler, Sidney ..... Scranton
Nagurney, Myron ..... Jessup
Netter, Robert ..... West Pittston
Newman, William J..... Olyphant
Niconovich, Eugene ..... Scranton
Nolan, Joseph T..... Carbondale
North, Arthur L..... Richmond Hill, N. Y.
Novitt, Chester ..... Exeter
O'Brien, David P..... Hazleton
O'Brien, John F..... Scranton
O'Connor, John M..... Blakely
O'Connor, Joseph A..... Scranton
O'Connell, Eugene F..... Scranton
O'Hara, John J..... Scranton
Olivetti, Armand E..... Dunmore
O'Neill, Francis W..... Dunmore
O'Neill, Joseph P..... Scranton
O'Neill, Paul D..... Dunmore

Onifer, Michael J.....Hazleton
Ormsby, Robert A.....Scranton
Oshetsky, Anthony .....Throop
Panaro, Rudolph J.....Scranton
Pashchuk, Alex .....Olyphant
Paulishak, William .....Olyphant
Peters, Leonard A.....Riverdale, N. J.
Peters, Stanley J.....Wilkes-Barre
Piatkowski, Paul J.....Forest City
Pieski, Leonard F.....Scranton
Pinamonti, Richard J.....Shamokin
Pin, Clerio, P.....Dunmore
Piraino, Frank W.....Scranton
Piszek, Joseph F.....Scranton
Pleban, Andrew R.....Hazleton
Ploskonka, Louis J.....Peckville
Pohutsky, Eugene R.....Old Forge
Polites, Peter J.....Scranton
Polcha, Joseph J.....Dunmore
Portera, Vincent .....Miami, Florida
Powell, James .....Taylor
Prawdzik, Charles .....Simpson
Preven, Larry .....Scranton
Prociak, Joseph .....Plains
Prokop, Thomas .....Hazleton
Pryor, John P.....Wilkes-Barre
Prystash, Walter L.....Olyphant
Purcell, William J.....Carbondale
Reddington, Thomas V.....Scranton
Regan, Robert J.....Scranton
Rehkop, Allen C.....Carbondale
Repash, Joseph .....Forest City
Rizzo, Nicholas S.....Pittston
Roberts, William H.....Scranton
Robinson, Gerald J.....Carbondale
Roche, John L.....Scranton
Roche, William E.....Scranton
Roe, Eugene J.....Olyphant
Rogers, Wesley A.....Mayfield
Romanowski, Edmund S.....Ashley
Rompilla, Michael .....Hazleton
Rosati, Norman .....Newark, N. J.
Rothman, Alfred G.....Scranton
Ruchinsky, Walter E.....Scranton
Ruddy, John A.....Scranton
Ruddy, Patrick J.....Binghamton, N. Y.
Russick, Edward S.....Duryea
Ryan, Francis E.....Scranton
Ryan, Joseph E.....Plains
Sabetta, Patrick J.....Old Forge
Sabia, Vito R.....Dunmore
Sadowski, Joseph S.....Throop
Santanielli, Sylvester .....Scranton
Sare, Lewis B.....Scranton
Savage, Paul J.....Maplewood
Scanlon, John J.....Scranton
Schwartz, John .....Scranton
Scott, Edward R.....Dunmore
Serenska, Edward S.....Fords, N. J.
Shea, John F.....Scranton
Sheridan, James F.....Kingston
Shields, Paul J.....Scranton
Shivy, Thomas F.....Kingston
Signorino, John G.....Lock Haven
Simon, Michael W.....Scranton
Slick, Joseph D.....Forest City
Slota, Gerald .....Scranton
Sluga, Anthony R.....Steelton
Smith, Alan J.....Harrisburg
Snyder, Victor V.....Swoyerville
Sofchak, Peter .....Dunmore
Sofranko, Paul F.....Olyphant
Soltis, Joseph S.....Wilkes-Barre
Son, Angelo J.....Pittston
Speer, Claud L.....Scranton
Stanchacz, Stanley J.....Dickson City
Stankiewicz, Clarence .....Uniondale
Steckel, David .....Scranton
Stim, Thomas B.....Jessup
Stroffolino, Walter L.....Brooklyn, N. Y.
Stolbach, Sydney .....Scranton
Surgent, Daniel E.....Eckley
Sweeney, Patrick F.....Ashley
Swift, Paul M.....Scranton
Syrylo, Stephen .....Scranton
Talerico, Eugene .....Old Forge
Tallo, Sam S.....Scranton
Tarantini, Leonard G.....Scranton
Targonski, Leonard A.....Shamokin
Taylor, John J.....Scranton
Taylor, John P.....Elmhurst
Telasha, Donald A.....Dickson City
Trelc, Robert P.....Forest City
Trovato, Onofrio C.....Scranton
Truskolaski, Frank J.....Olyphant
Unis, Walter S.....Simpson
Urda, John .....Herrick Center
Urka, Francis P.....West Pittston
Vanyo, Jerome S.....Scranton
Vargas, William.....Santurce, Puerto Rico
Venarucci, Ray T.....Pittston
Verchinski, Adam L.....Jermyn
Villeta, Juan A.....Puerto Rico
Viola, John J.....Dunmore
Vita, William D...Bellerose, L. I., N. Y.
Walsh, James T.....Scranton
Walsh, John R.....Dunmore
Waurin, Joseph .....Simpson
Wayno, Joseph J.....Scranton
Weibel, Robert E.....Taylor
Weinstein, Fred .....Scranton
White, Walter J.....Scranton
Wilkus, Joseph J.....Peely
Williams, David L.....Scranton

Wisniewski, Chester P.....Shenandoah
Witek, Peter .....Wilkes-Barre
Wolfgang, Fred .....Scranton
Woodbridge, John .....Scranton
Woodworth, Norman .....Peckville
Woychik, John H.....Minooka
Yerabeck, Vincent .....Wilkes-Barre
Yurkanin, Joseph .....Ashley
Zandarski, Joseph R.....Dickson City
Zarichak, August J.....Carbondale
Zvikas, Walter J.....Lake Ariel

Freshman I

Alimar, Jose R.....Ponce, Puerto Rico
Alpert, Norman R.....Dunmore
Andrauskas, Edward A.....Scranton
Andrukiewicz, Frank C.....Hudson
Appert, Hubert E.....Hawley
Artim, Eugene D.....Binghamton, N. Y.
Artim, Stephen J.....Binghamton, N. Y.
Austin, Joseph D.....Jermyn
Balassa, Julius J.....Throop
Baller, Peter .....Plains
Balzano, James J.....Old Forge
Barnett, John J.....Newark, N. J.
Barrett, Edward J.....Peckville
Barrett, Joseph J.....Scranton
Barrett, Paul L.....Scranton
Bartek, George A.....Ashley
Bartkowski, Gerard S.....Dickson
Bartley, William J.....Scranton
Battle, Robert P.....Scranton
Benarick, Eugene J.....Forest City
Berry, James F.....Scranton
Bianco, Aniello T.....Bronx, N. Y.
Blandina, John J.....Pittston
Bogda, Edward .....Dunmore
Boland, William J.....Dunmore
Bolcavage, Wallace A.....Archbald
Bolinski, Robert J.....Mocanaqua
Bonanni, Peter A.....Jessup
Breig, Robert A.....Olyphant
Breslin, William S.....Wilkes-Barre
Brosnan, John B.....Scranton
Brown, R. Warren.....Scranton
Buniak, William M.....Peckville
Burak, Paul .....Keiser
Burke, Thomas E.....Dickson City
Burke, Walter D.....Scranton
Burns, John J.....Scranton
Burns, Joseph L.....Mahanoy Plane
Butler, John J.....Scranton
Butler, William F.....Scranton
Callahan, John E.....Olyphant
Cannon, James L.....Hazleton
Carbona, Eugene A...Long Beach, N. Y.
Carpenter, John A.....Exeter
Carpenter, Paul R.....Scranton
Carroll, William P.....Darby
Casazza, John J.....New York, N. Y.
Casey, Edmund W.....Dunmore
Castellano, Peter A.....Dunmore
Castelli, Alphonse V...New York, N. Y.
Cawley, John J.....Scranton
Chase, James H.....Hawley
Chermak, Jerome A.....Scranton
Chudzinski, Robert J.....Forest City
Cianfichi, Albert R.....Scranton
Cleary, Joseph J.....Olyphant
Clifford, Anthony L.....Avoca
Clifford, Philip J.....Scranton
Colan, John R.....Scranton
Collins, Frank M.....Scranton
Collins, Hugh G.....Scranton
Collins, Joseph C.....Carbondale
Comerford, Michael E.....Scranton
Comstock, Michael B.....Elmira, N. Y.
Connolly, Edward C.....Jessup
Connolly, Edward J.....Scranton
Connors, Joseph P.....Pittston
Cook, Edward H.....Shenandoah
Cook, James T.....Shenandoah
Coolican, Paul J.....Scranton
Corcoran, Paul M.....Archbald
Coyne, Joseph R.....Scranton
Cruciani, Dominick, Jr.....Olyphant
Culkin, John J.....Warren, Ohio
Culkin, William M.....Dunmore
Cummings, John P.....Scranton
Cummings, Thomas P.....Dunmore
Cunningham, William D.....Jermyn
Curran, James E.....Mauch Chunk
Cusick, William J.....Plainfield, N. J.
Dalton, Donald J.....Chinchilla
Danko, Richard G.....Hazleton
Dankulich, Charles J.....West Pittston
Dante, Samuel J.....Scranton
Datti, Paul C.....Scranton
Davies, Ellis J.....Honesdale
Davitt, Hugh R.....Scranton
Decker, Eugene F.....Wilkes-Barre
Delaney, Richard P.....West Pittston
Delesky, Frank E.....Scranton
DeMatteo, Nicholas J.....Olyphant
Dempsey, Thomas M.....Mayfield
Dennison, William G.....West Pittston
Dervin, James J.....Drexel Hill
DeSanto, Anthony J.....Kingston
DeSanto, Paul J.....Mt. Pocono

Devlin, Robert J.....West Reading
Diakow, Robert .....Scranton
DiMauro, Michael .....Berwick
Dinsmore, James F.....Scranton
Dolinger, George W.....Dunmore
Dolinger, Sheldon .....Scranton
Donachie, Robert J.....Scranton
Dorbad, Joseph F.....Pittston
Dougher, Aloysius D.....Archbald
Downey, John T.....Nutley, N. J.
Doyle, William M.....Shenandoah
Duke, Paul E.....Pittston
Dunstone, William H.....Dunmore
Early, William J.....Scranton
Elnitsky, John .....Olyphant
Eshmont, Anthony J.....Throop
Fahey, John L.....Olyphant
Fanucci, Orlando A.....Scranton
Farrell, Robert J.....Carbondale
Farrell, Thomas P.....Scranton
Feistl, Edward L.....Plymouth
Fennell, Matthias F.....Elmira, N. Y.
Fetch, George E.....Wyoming
Filarsky, Stephen M.....Throop
Fitzpatrick, Thomas F.....Scranton
Fitzpatrick, William A.....Scranton
Flanley, Eugene M.....Wilkes-Barre
Flannelly, John C.....Dunmore
Flannery, Thomas F.....Jessup
Fleming, Joseph C.....Long Branch, N. J.
Flynn, John R.....Scranton
Flynn, Robert J.....Scranton
Foley, William D.....Scranton
Franey, Thomas J.....Scranton
Friedman, Benjamin H.....Throop
Gabriel, James P.....Peckville
Gallagher, Paul J.....Scranton
Gallagher, Thomas J.....Dunmore
Garcia, Raul.....Santurce, Puerto Rico
Gardier, Chris C.....Dunmore
Garvey, Francis E.....Scranton
Gelb, Sanford J.....Old Forge
George, Walter M.....Scranton
Gillis, William P.....Forest City
Golden, Joseph A.....Scranton
Goncalves, Anthony J.....Centralia
Gonsky, Edward F.....Throop
Gowarty, Joseph C.....Scranton
Greco, Charles E.....Kingston, N. Y.
Green, Daniel K.....Dickson City
Groark, James P.....Pittston
Grow, David V.....Pittston
Guse, Harold H.....Clarks Green
Hall, Robert E.....Dickson City
Harding, David J.....Scranton
Harding, Raymond B.....Scranton
Harowitz, Payton .....Scranton
Harrison, William L.....Peckville
Hart, Thomas G.....Scranton
Hawley, Edward J.....Scranton
Haydu, Louis A.....Scranton
Healey, Francis J.....Olyphant
Henahan, John F.....Wilkes-Barre
Hennessey, Mark A.....Scranton
Hennigan, Stephen J.....Scranton
Hepplewhite, Herbert L.....Scranton
Higgins, John F.....Scranton
Hiznay, Paul A.....Wyoming
Hodowanitz, Michael, Jr.....Scranton
Holleran, James R.....Carbondale
Holmes, Robert B.....Scranton
Howard, Eugene H.
Manhasset, L. I., N. Y.
Howley, James M.....Scranton
Hricko, Robert M.....Olyphant
Hubal, William .....Thompson
Intoccia, Alfred P.....Scranton
Jackson, Gerald T.....Scranton
Janezic, Edward A.....Forest City
Jankowski, Joseph P.....Dickson City
Janssen, Andrew C.....Scranton
Jarusik, Louis K.....Lake Ariel
Jones, Thomas D.....Clarks Summit
Jones, Warren T.....Dunmore
Joyce, John J.....Minooka
Kaloss, Constantine J.....Scranton
Kearns, Frank X.....Moscow
Kearns, William P.....Moscow
Keeler, Thomas E.....Scranton
Keenan, Robert J.....Scranton
Keklak, Alfred .....Simpson
Kelleher, John T.....Scranton
Kelleher, Martin M.....Vandling
Kempinski, Arthur J.....Nanticoke
King, William M.....Scranton
Kitcho, Michael G.....Taylor
Kizis, John C.....Pittston
Kohut, Stephen .....Carbondale
Kornish, William A.....Scranton
Korpita, George, Jr.....Taylor
Koslosky, Edward W.....West Wyoming
Kowalski, Joseph G.....Nanticoke
Kozakevich, Paul S.....Throop
Kozischek, James F.....Scranton
Krakovesky, Thomas J.....Olyphant
Krochta, Nicholas L.....Peckville
Krupinski, John P.....Scranton
Kubasko, James J.....Throop
Kubay, Leo F.....Jermyn
Kudrec, Donald M.....Jessup
Kunda, Clement C.....Dickson City
Lamoreaux, Harry E.....Carbondale
Lane, John E.....Towanda
Langan, William G.....Scranton

Lantelme, Rudolph L. Long Beach, N. Y.
Latzanich, George ..... Dunmore
Lawrence, Joseph W..... Scranton
Leonard, John C..... Hazleton
Leonard, John E..... Pittston
Leone, Samuel J..... Pittston
Leopard, Peter A..... Scranton
Lepore, Carl J..... Newark, N. J.
Lepore, Lewic C..... West Pittston
Lewis, Carroll J..... Olyphant
Liptak, Edward ..... Mayfield
Lisowski, Aleck A..... Simpson
Little, William J..... Carbondale
Loftus, John T..... Olyphant
Loftus, Harold J..... Carbondale
Loll, Richard C..... Elmira, N. Y.
Long, Thomas F..... Hatboro
Lonsdorf, Paul W..... Minooka
Lonatofsky, Joseph G..... Uniondale
Loughney, Mark J..... Jermyn
Loungo, Vito J..... Dunmore
Loyd, Edward J..... Scranton
Ludwikowski, Joseph F..... Scranton
Lune, Marvin ..... Scranton
Lusardi, Herman P..... Hollidaysburg
Macaulay, Robert ..... Scranton
Mahon, Robert M..... Scranton
Makowski, Raymond R..... Keiser
Malinowski, Hilary L..... Eynon
Maloney, John P..... Dunmore
Manning, William J..... Clarks Summit
Margotta, Joseph J..... Dunmore
Marianelli, Albert A..... Old Forge
Mark, Milton C..... Taylor
Marmaluk, Joseph ..... Jermyn
Marshalek, Bernard J..... Keiser
Marsh, Edmund T..... Avoca
Martin, James A..... Scranton
Mastrocola, Joseph W..... Scranton
Matushoneck, Thomas J..... Hazleton
McCabe, Thomas C..... Scranton
McCann, William P..... Carbondale
McCarthy, Daniel J..... Scranton
McCarthy, John J..... Carbondale
McCarthy, John J..... Dunmore
McCawley, Thomas A..... Scranton
McDade, Augustus P..... Taylor
McDade, Joseph J..... Taylor
McDonnell, James P..... Minooka
McGlynn, John T..... Pittston
McGoff, James R..... Scranton
McGowan, Paul H..... Throop
McHale, James J..... Strong
McHale, John J..... Scranton
McHugh, Edward R..... Scranton
McHugh, John G..... Scranton
McKnight, William C..... Scranton
McManus, George J..... Carbondale
Meka, Edward M..... Lenoxville
Meckalavage, Leonard M..... Pittston
Miluszusky, Raymond J...Peasant Mount
Mohr, Michael T..... Kingston
Molchan, Joseph J..... Larksville
Molenda, John R..... Minooka
Mollick, James A..... Hazleton
Mollusky, Robert S..... Luzerne
Mongan, Michael J..... Scranton
Mooney, John T..... Olyphant
Moran, John H..... Scranton
Moran, Michael T..... Scranton
Moraski, Edward F..... Scranton
Morgan, John F..... Dunmore
Mory, Warren H..... Scranton
Motsay, Robert T..... Carbondale
Mullaney, Edward B..... Dunmore
Mullen, Francis E..... Scranton
Mulvany, Robert H.....Baldwin, N. Y.
Munchak, George T..... Scranton
Munley, Robert W..... Archbald
Murphy, Donald M..... Collegeville
Murphy, Thomas A..... Scranton
Nealon, John G..... Moosic
Nealon, Robert B..... Dunmore
Neary, James R..... Dunmore
Nicholas, Peter C..... Scranton
Nolan, Aloysius C..... Carbondale
Nolan, Donald K..... Lake Ariel
Norkus, Joseph T..... Pittston
Noto, Thomas J..... Scranton
Nowak, Leo A..... Freeland
Nussbaum, Stanley.....Brooklyn, N. Y.
Obeid, James A..... Wilkes-Barre
O'Boyle, Eugene H..... Scranton
O'Brien, Michael G..... Scranton
O'Connell, Barry ..... Scranton
O'Donnell, Eugene G..... Hazleton
O'Hora, Paul J..... Dunmore
O'Horo, John T..... Dunmore
O'Malley, Thomas M..... Scranton
O'Neill, Charles B...Staten Island, N. Y.
Orr, William T..... Pittston
O'Toole, John J..... Scranton
Pace, James A..... Exeter
Pacuska, John T..... Pittston
Panunzi, Ralph J..... Eynon
Pascoe, Louis B..... Carbondale
Paterson, William G..... Scranton
Patrick, Robert E..... Scranton
Patterson, Leonard J..... Scranton
Pavlisko, Joseph ..... Olyphant
Pawelski, Chester B..... Dickson City
Payton, Thomas J..... Dunmore
Pellegrini, Joseph E..... Scranton

Pisano, Samuel A.....Pittston
Pepe, John P.....West Pittston
Perry, Robert J.....Scranton
Petitto, William J.....Dunmore
Petrucelli, Francis .....Bangor
Pettinato, Anthony C.....Carbondale
Piatkowski, Thomas M.....Forest City
Pierce, Lawrence E.....Scranton
Pirhalla, John .....Jessup
Pisanchyn, John .....Olyphant
Possanza, Dominick.....Jessup
Posten, Paul V.....Scranton
Preitz, Leonard E.....Scranton
Preitz, Robert H.....Scranton
Preitz, Wallace T.....Scranton
Prime, Edward S.....Bethlehem
Prokipchak, William .....Olyphant
Pronko, Myron .....Dickson City
Prusinski, Paul A.....Dunmore
Queeney, Paul J.....Pittston
Quinn, Joseph E.....Scranton
Rable, Cyril J.....Dunmore
Rafalko, Sylvester A.....Greenwood
Rafferty, Michael J.....Scranton
Rauschmayer, Joseph T.....Falls
Rava, Alfred C.....Duryea
Reddington, Joseph T.....Scranton
Reich, Angelo J.....Olyphant
Rempe, Harold F.....Scranton
Remus, Casimer F.....Pittston
Renda, Carl A.....Scranton
Ricci, Joseph A.....Dickson City
Rice, Will M.....Scranton
Rickert, Paul J.....Honesdale
Ries, S. William.....Scranton
Rittenhouse, Thomas J.....Merion
Rocchino, Frank J.....Amber
Roche, William D.....Dunmore
Rosati, Vincent J.....Newark, N. J.
Rosipko, Michael A.....Olyphant
Roszko, Frank X.....Dupont
Ruane, Francis P.....Scranton
Rubel, Aaron .....Scranton
Ruddy, Joseph J.....Taylor
Ruggiero, Anthony T.....Pittston
Russavage, Clement J.....Duryea
Ryczak, Joseph S.....Mayfield
Rysz, Theodore P. .....Taylor
Sabaitis, Thomas D.....Archbald
Sabatelle, Anthony J.....Dunmore
Saccone, Joseph A.....Scranton
Sallusti, Henry C.....Scranton
Santarelli, Elmo P.....West Wyoming
Santiso, Thomas .....Lake Ariel
Santoski, Joseph M.....Scranton
Sartor, Angelo A.....Dunmore
Scaccia, Albert C.....Scranton
Scanlon, James A.....Scranton
Scaran, Anthony J.....Dunmore
Schemel, George J.....Archbald
Schimelfenig, Eugene E.....Scranton
Schneider, Irwin .....Scranton
Schultz, Cleon R.....Gouldsboro
Schuster, Richard H.....Dickson City
Sefchik, Robert P.....Dupont
Seroka, Eugene .....Old Forge
Seyna, Eugene J.....Dunmore
Shalett, Stanley L.
Mount Vernon, N. Y
Sheppard, Arthur S.....Bridgeton, N. J.
Shewack, George J.....Scranton
Shinal, John S...Wilkes-Barre Township
Shufesky, Eugene.....Jessup
Siebecker, Robert G.....Scranton
Skiba, Walter F.....Scranton
Skordinski, Donald A.....Glen Lyon
Skovira, Bernard .....Jessup
Skrobiszewski, Leonard T.
Dickson City
Slachtish, Theodore .....Olyphant
Slivinski, Carl A.....Throop
Slowey, Robert E.....Scranton
Slusser, Clarence, Jr.....Berwick
Smalanskas, Anthony J.....Pittston
Smith, Albert J.....Scranton
Smith, Albert H.....Mauch Chunk
Snopkowski, Daniel J.....Duryea
Soma, Edward D.....Scranton
Soniak, William .....Scranton
Soranno, Donato S.....Dunmore
Sowinski, Frank A.....Dickson City
Speicher, Charles A.....Scranton
Stagaman, John W.....Wellsboro
Stampien, Ted M.....Old Forge
Stasium, Alfred A.....Eynon
Steele, Thomas F.....Scranton
Strauss, Maurice B.....Scranton
Sullivan, William N.....Brooklyn, N. Y.
Sweeney, William H.....Olyphant
Swift, Edward J.....Scranton
Swingle, Jess L.....Lake Ariel
Swingle, John E.....Lake Ariel
Sykes, H. Robinson.....Scranton
Taddeo, Leo I.....Williamsport
Tallo, Joseph J.....Scranton
Tasonyi, William R.....Jessup
Taylor, Wade E.....Carbondale
Tedesco, Alexander R.....Old Forge
Teot, Roger J.....Scranton
Thomey, William R...Long Branch, N. J.
Tighe, Thomas J.....Olyphant
Tirellis, August G.....Scranton
Todd, Charles T.....Danielsville
Tolan, Leonard F.....Scranton

Tompkins, Erwin ..... Scranton
Tracy, Francis G..... Sugar Notch
Tracy, Robert L..... Old Forge
Trojanowski, Eugene R..... Dickson City
Tulley, Charles M..... Reading
Udinskey, Joseph R..... Pittston
Uzdilla, Edward G..... Wilkes-Barre
Vaccaro, Joseph J..... Dunmore
Valenti, Samuel A..... Pittston
VanFleet, Vernon F..... Fleetville
Vickers, Walter C..... Carbondale
Vishneski, John S..... Taylor
Vita, Robert C..... Jersey City, N. J.
Vitiello, Ralph E..... Archbald
Walsh, Aloysius P..... Scranton
Walsh, Donald J..... Scranton
Walsh, Gerard W..... Carbondale
Walsh, John A..... Scranton
Walsh, Robert G..... Scranton
Walsh, Thomas J..... Scranton
Walsh, William F..... Dunmore
Warhola, Andrew J..... Forest City
Weisberger, Harold ..... Scranton
Weltman, Harold S..... Kingston
Werner, George T..... Scranton
Wilmarth, David L..... Scranton
Wilson. Charles S..... Scranton
Wisniewski, Thomas J..... Shenandoah
Wolf, Herbert T..... Hollidaysburg
Wolsky, Bernard E..... Shenandoah
Wrabel, Stephen E..... Throop
Wysocki, Walter J..... Peckville
Yakowenko, Nicholas ..... Simpson
Yankelumas, Leonard ..... Scranton
Yarish, Leonard J..... Dickson
Yorke, John P..... Forest City
Yatko, Norman J..... Nanticoke
Youngblood, Robert D..... Shavertown
Yurkowski, Stanley P..... Mayfield
Zachary, Samuel P..... Luzerne
Zampino, Samuel M..... Berwick
Zapotoski, Frank J..... Plains
Zebrowski, Stanley M..... Dickson City
Jeranski, Bolis F..... Forest City
Zimmerman, George J... Clarks Summit
Zinsky, Nicholas ..... Olyphant

Specials

Brecht, Clifton W..... Scranton
Burke, Victor B..... Dunmore
Coopersmith, Stanley.. East Bronx, N. Y.
Fitzsimmons, John V..... Scranton
Gorney, Walter E..... Glen Lyon
Griffin, John M..... Scranton
Kurello, Edward L..... Wilkes-Barre
Lawrence, Edwin C..... Scranton
McGrath, William J..... Scranton
Nunes, Arlindo C..... Arima, Trinidad
Ruddy, Thomas J..... Scranton
Scatton, Anthony R..... Hazleton
Sirotnak, Joseph M..... Throop
Snyder, Gehrad ..... Scranton
Zola, Andrew E..... Hazleton

Evening School—Fall Semester—1948

Acker, Harry ..... Scranton
Ackourey, Samuel F..... Scranton
Akerley, Margaret ..... Clarks Summit
Alexander, Howard R..... Carbondale
Alubowicz, Bernard F..... Dickson City
Amato, Francis P..... Olyphant
Annett, Richard L..... Dunmore
Antonelli, John ..... Hazleton
Arcangeletti, Edward A..... Scranton
Arena, Victor P..... Scranton
Arnese, Joseph C..... Carbondale
Arnold, John G..... Scranton
Arrowsmith, Richard N..... Forest City
Artigiani, Armando J..... Jessup
Ash, George J..... Scranton
Augustine, John ..... Scranton
Baboolal, Lionel A..... Trinidad, B.W.I.
Bahr, William C..... Dunmore
Baker, Duane S..... Carbondale
Baker, Edgar G..... Carbondale
Balducci, Italo M..... Scranton
Balish, Daniel ..... Scranton
Ballantyne, William A..... Scranton
Banos, Dorothy A..... Pittston
Barone, Joseph A..... Dunmore
Barrett Francis M..... Scranton
Barrett, John P..... Scranton
Barrett, Joseph P..... Scranton
Barrett, Raymond B..... Archbald
Barrett, Robert T..... Scranton
Barthalai, Arthur A..... Pittston
Bartkowski, Walter ..... Olyphant
Bassett, William J..... Moscow
Battle, Jane ..... Scranton
Bau, Louis E..... Taylor
Baxter, Courtney ..... Scranton
Beattie, John A..... Carbondale
Beddoe, George, Jr..... Scranton
Bendorovich, Bridget A..... Peckville
Benintende, Edward H..... Scranton

Bergida, Marvin M.....Scranton
Besecker, Earl W.....Elmhurst
Biddleman, Harold R.....Scranton
Bielski, Lucille R.....Minooka
Billek, Michael, Jr.....Scranton
Bird, Robert J.....Pittston
Bird, Theodore B.....Scranton
Birdsall, Charles E.....Scranton
Black, Mary C.....Scranton
Blake, Dorothea C.....Taylor
Blake, John V.....Archbald
Blake, Robert S.....Taylor
Blazys, Robert J.....Scranton
Bobchek, Edwin .....Olyphant
Bocchino, Louis S.....Scranton
Bochicchio, Maurice V.....Dunmore
Boland, Helen M.....Scranton
Boland, Joseph W.....Scranton
Bonadio, Anthony M.....Scranton
Bosha, Philip J.....Minooka
Bour, Joseph P.....Scranton
Bowen, Sarah .....Clarks Summit
Boyd, Myles J.....Scranton
Boylan, Michael F.....Scranton
Brennan, William F.....Carbondale
Brier, Robert .....Scranton
Brislin, Joseph E.....Wilkes-Barre
Brogenski, Joseph J.....Throop
Bronson, John E.....Scranton
Brower, Robert J.....Scranton
Brown, Claire T.....Scranton
Brown, Gilbert C.....Uniondale
Brown, D. Romayne.....Scranton
Brown, Thomas D.....Jessup
Brown, William V.....Jessup
Bryk, John J.....Dupont
Buckley, Robert D.....Scranton
Burke, John A.....Scranton
Burke, Thomas J.....Carbondale
Burnett, Paul F.....Carbondale
Burns, Barbara .....Scranton
Butler, Edwin J.....Scranton
Butler, Mary M.....Archbald
Buza, Edward V.....Dickson City
Byron, Robert L.....Scranton
Cacciamani, Aldo F.....Scranton
Cacciamani, Julio P.....Scranton
Caffrey, Kenneth F.....Scranton
Cahill, Herbert F.....Binghamton, N. Y.
Cali, Joseph A.....Dunmore
Calvey, James.....Clarks Summit
Calogero, Eugene J.....Old Forge
Calpin, Thomas P.....Scranton
Campo, Ann L.....Scranton
Canavan, John R.....Scranton
Cancelli, Dante E.....Peckville
Cannon, Francis .....Scranton
Capone, Anthony J.....Scranton
Capone, John J.....Dunmore
Cardamon, Della R.....Dickson City
Cardene, Richard J.....Scranton
Carlton, Eleanor M.....Scranton
Carney, Gerald F.....Carbondale
Carroll, Joseph D.....Avoca
Carroll, Pauline .....Scranton
Casey, Harry G.....Scranton
Casterlin, Everett A.....Scranton
Cavanaugh, Vincent J.....Scranton
Cawley, Gerard T.....Scranton
Cawley, James T.....Carbondale
Cawley, John F.....Scranton
Cawley, John L.....Scranton
Cesare, Leo L.....Old Forge
Chaplick, Joseph G.....Pittston
Cherra, Andrew A.....Scranton
Cherra, Salvatore J.....Scranton
Chiavacci, Eugene A.....Exeter
Chiavacci, Louis J.....Pittston
Chmiel, Felix J.....Moosic
Chmielewski, Bernard J.....Dickson City
Christ, John W.....Scranton
Chylak, George, Jr.....Olyphant
Clarke, Raymond A.....Carbondale
Clauss, Harvey P.....Olyphant
Clifford, Jean M.....Scranton
Coleman, Francis P.....Carbondale
Collier, James P.....Olyphant
Collins, Harold W.....Pittston
Collins, James P.....Scranton
Collins, Mary J.....Scranton
Collins, Thomas J.....Scranton
Conkey, Mary L.....Avoca
Conmy, Ruth .....Carbondale
Connell, Robert J.....Chinchilla
Connery, Joseph J., Jr.....Scranton
Connolly, Jack J.....Carbondale
Connolly, Louise .....Scranton
Connolly, Margaret A.....Kingston
Connor, Joseph N.....Scranton
Conroy, Joseph R.....Scranton
Cook, Francis J.....West Pittston
Corcoran, John J.....Scranton
Corti, Alba E.....Scranton
Cosgrove, Eugene F.....Scranton
Costa, Peter C.....Childs
Cottone, Joseph V.....Scranton
Coveleskie, Stanley R.....Dickson City
Coyle, Edward T.....Scranton
Coyle, John P.....Dunmore
Coyne, James M.....Scranton
Crockenberg, Norman R.....Scranton
Cullen, John W.....Scranton
Cummings, Eugene T.....Scranton
Cummings, William E.....Inkerman

Cunningham, James M.....Dunmore
Cunningham, Rose M.....Dunmore
Dakunchak, George A.....Olyphant
Dale, Percy P.....Clarks Summit
Dano, Flora A.....Scranton
DaRos, Anthony J.....Old Forge
Dartt, James J.....Scranton
Davern, Paul .....Scranton
Davidson, Walter W.....Dunmore
Davies, Don T.....Avoca
Davis, A. Robert.....Throop
Davis, Brynmor, Jr.....Scranton
Davis, Demitra J.....Scranton
Davis, Griffith .....Scranton
Davis, Ralph .....Scranton
Davis, Richard .....Scranton
Davis, Russell C.....Dunmore
Dawe, James D.....Scranton
DeAngelis, Frank R.....Old Forge
Dearie, Nathaniel F.....Carbondale
DeFazio, Lawrence.....Dickson City
Dehaba, Stephen J.....Duryea
Deininger, Ralph R.....Scranton
Delmonte, John J.....Pittston
DelRosso, Louis N.....Dunmore
Dempsey, Bernard L.....Dickson City
Dempsey, Joseph P.....Dunmore
Dempsey, Martin J.....Olyphant
Demuth, Jean R.....Scranton
Demuth, Marion L.....Scranton
Depoti, Joseph T.....Carbondale
DeSanto, Robert S.....Scranton
DeStefano, Vincent J.....Scranton
Dimler, Hugh W.....Scranton
Dimmick, Orville E.....Scranton
Doherty, Paul J.....Dunmore
Donahue, Daniel E.....Scranton
Donahue, Paul J.....Pittston
Donahue, William D.....Scranton
Donato, Frank T.....Dunmore
Donato, Joseph A.....Dunmore
Donato, Leonard S.....Dunmore
Donelan, Martin E.....Scranton
Donohue, John F.....Scranton
Donovan, William M., Jr.....Scranton
Doran, Francis D.....Avoca
Dorosh, Harry T.....Jessup
Dorsey, David E.....Scranton
Douaihy, Joseph .....Scranton
Dougherty, James F.....Scranton
Dougherty, James L.....Nanticoke
Dougherty, John E.....Dunmore
Dougherty, Thomas J.....Dunmore
Dougherty, William P.....Pittston
Doyle, Francis J.....Scranton
Doyle, Jack F.....Carbondale
Druckenbrod, John J.....Scranton
Dubin, Joseph M.....Scranton
Duggan, Robert P.....Scranton
Duignam, Luke J.....Scranton
Durdan, Marion M.....Scranton
Durkin, Gerald F.....Olyphant
Durso, Vincent D.....Scranton
Earles, Joseph T.....Scranton
Earles, Paul T.....Scranton
Edelstein, Isadore I.....Scranton
Eisele, John E.....Scranton
Emmel, Willard R.....Scranton
Engelmyer, Harold .....Taylor
Evanko, John .....Dunmore
Ewonishon, Metro .....Simpson
Falbo, Bruno E.....Carbondale
Falcioni, Dina M.....Archbald
Falke, Byrne E.....Scranton
Falkowsky, Carl A.....Scranton
Falong, Thaddeus .....Carbondale
Falzett, Angelo M.....Throop
Farley, Laurence F.....Milnesville
Farley, Thomas J.....Archbald
Farrell, John J.....Wilkes-Barre
Farry, Raymond G.....Scranton
Fata, Francis.....Bronx, N. Y.
Feeley, James W.....Olyphant
Feeney, Thomas J.....Scranton
Feibus, Tillie R.....Scranton
Ferguson, John J., Jr.....Scranton
Fey, Eugene J.....Scranton
Fiene, Evelyn M.....Scranton
Filarsky, Herbert E.....Throop
Finnegan, John A.....Dunmore
Fischer, Clifton F.....Scranton
Fitzgerald, Francis A.....Olyphant
Fitzsimmons, Frank X.....Scranton
Flannery, Frank X.....Scranton
Flesch, Howard R.....Scranton
Fletcher, William R.....Scranton
Flood, Robert L.....Carbondale
Flynn, William J.....Scranton
Foglietta, Eva M.....Throop
Forkin, Patrick B.....Scranton
Forman, Irwin .....Scranton
Frank, Elizabeth .....Scranton
Frech, James F.....Managua, Nic.
Fuller, Charles E.....Scranton
Fuller, Wilbur .....Scranton
Furnari, Philip E.....Scranton
Gabriel, Frederick.....Clarks Summit
Gaffney, Francis J.....Wilkes-Barre
Gaffney, John J.....Kingston
Gallagher, Barbara M.....Minooka
Gallagher, Paul J.....Scranton
Gallagher, Robert E.....Scranton
Gambal, Marie .....Old Forge
Gardeski, Thelma J.....Jermyn

Garvey, Eugene A.....Scranton
Gavin, John W.....Scranton
Gayeski, Edward .....Duryea
Genitski, Alex J.....Throop
Germano, Peter E.....Dunmore
Geroulo, Palmer J.....Jessup
Gerrity, Edward J.....Scranton
Gerrity, Thomas E.....Pittston
Getson, Gerald E.....Avoca
Getzie, John, Jr.....Jermyn
Ghigiarelli, Elder A.....Old Forge
Gilbride, Paul J.....Scranton
Gilroy, Edward J.....Pittston
Ginsburg, Martin J.....Scranton
Golden, John J., Jr.....Scranton
Golden, Walter .....Scranton
Gombar, Cecelia C.....Throop
Gondella, Teresa E.....Taylor
Goodman, Arthur J.....Scranton
Gordon, Owen E.....Clarks Green
Gould, Charles W.....Factoryville
Gower, Robert J.....Scranton
Grady, Francis B.....Scranton
Gratkowski, Jean D.....Scranton
Greco, Loretta B.....Old Forge
Greenwald, Burton L.....Scranton
Greenwald, Herbert S.....Scranton
Gregori, Quinto J.....Eynon
Gretzula, Elizabeth R.....Throop
Gretzula, Mary M.....Throop
Grier, John P.....Carbondale
Grosh, Paul V.....Olyphant
Guzzi, Joseph L.....Old Forge
Guzewski, Joseph J.....Scranton
Hadley, Gerald T.....Olyphant
Hall, John M.....Scranton
Hamaker, Mary A.....Harrisburg
Hannon, Joseph J.....Scranton
Hannon, Richard C.....Scranton
Harding, Robert A.....Scranton
Hazzouri, Sarkis A.....Scranton
Healey, Catherine .....Dunmore
Heckman, Lucille J.....Scranton
Heid, Marie .....Carbondale
Heider, Jeanne M.....Scranton
Hendricks, Benjamin F.....Scranton
Hennigan, Alys M.....Scranton
Hennigan, John L.....Scranton
Hennigan, John V.....Olyphant
Hepburn, George R.....Scranton
Heston, Paul C.....Moosic
Hetsko, Edward J.....Dunmore
Higgins, William W.....Scranton
Himchak, John, Jr.....Jessup
Hnatew, William .....Scranton
Hoban, Francis P.....Scranton
Hochberg, Robert.....New York, N. Y.
Hoffecker, Charles G.....Scranton
Holevinski, Edward .....Moscow
Holgash, Nicholas G.....Old Forge
Holland, Nan R.....Old Forge
Hollander, Jerome M.....Scranton
Holt, Charles J.....Scranton
Honold, Robert W.....Scranton
Hooper, Jack W.....Carbondale
Hopkins, Donald J.....Scranton
Hopkins, Leo F.....Scranton
Hopkins, Leonard J.....Scranton
Hopkins, Stuart P.....Scranton
Hopkins, Vincent W.....Scranton
Horan, Thomas J.....Scranton
Hordesky, Emil T.....Carbondale
Houlihan, Joseph G.....Throop
Howard, Thomas A.....Carbondale
Hubiak, John .....Old Forge
Hughes, Arthur .....Scranton
Hughes, Russell B.....Scranton
Hurd, Albert .....Moscow
Ilges, Fred .....Scranton
Intoccia, Vincent J.....Scranton
Jackowicz, Ambrose A.....Minooka
Jacobs, John .....Scranton
Jaconski, Alex .....Scranton
James, John D.....Scranton
Jenkins, Frank J.....Scranton
Jennes, Frank C.....Dickson City
Jennings, David J.....Clarks Summit
Jezuit, Michael J.....Olyphant
Johnson, John G.....Clarks Green
Jones, Betty R.....Scranton
Jones, C. Henry.....Scranton
Jones, Donald J.....Scranton
Jones, Gwynfryn T.....Scranton
Jones, James R.....Dalton
Jones, John .....Scranton
Jones, John L.....Scranton
Jones, Mary P.....Clarks Summit
Jones, Roy E.....Scranton
Jones, Robert C.....Scranton
Jones, William J.....Scranton
Jordan, Donald W.....Dunmore
Jordan, John W.....Olyphant
Joseph, Joel B.....Scranton
Joyce, Eugene F.....Minooka
Joyce, Martin J.....Old Forge
Joyce, Thomas F.....Scranton
Judge, Frank J.....Scranton
Judge, James P.....Scranton
Juskevitch, Monica .....Scranton
Kadjeski, Peter P.....Scranton
Kalina, Myron .....Dunmore
Kaloss, Marie .....Scranton
Kanavy, Cletus C.....Scranton
Kane, Richard J.....Scranton

Kane, Robert M.....Scranton
Karam, Francis P.....Scranton
Karcheski, John A.....Pittston
Kareiva, Charles T.....Scranton
Kasper, John .....Scranton
Kearney, Gerald M.....Dunmore
Keating, George J.....Scranton
Keating, William E.....Scranton
Kechola, Martin .....Olyphant
Kelleher, John D.....Clarks Summit
Kelleher, William E.....Scranton
Kelly, John J.....Scranton
Kelly, Joseph P.....Pittston
Kelly, Margaret M.....Scranton
Kelly, Paul E.....Pittston
Kelly, Paul V.....Scranton
Kelly, Thomas F.....Dunmore
Kennedy, Carl .....Peckville
Kenny, Walter P.....Scranton
Kibert, Charles G.....Scranton
Killian, Joseph E.....Scranton
Kimak, John, Jr.....Taylor
Kinback, Albert B.....Archbald
King, William .....Scranton
Kirwin, Michael J.....Scranton
Kizer, George C.....Scranton
Kizer, Walter C.....Scranton
Kleinberger, Sidney G.....Scranton
Klemensic, Irene .....Carbondale
Kochis, George E.....Throop
Kofira, Nicholas R.....Taylor
Kohl, Arlene F.....Scranton
Koscomb, John F.....Dunmore
Kovacs, Attila Q.....Throop
Kovacs, William L.....Dunmore
Kraemer, Charles G.....Scranton
Kretchmer, Robert H.....Scranton
Krishanda, Joseph J.....Jessup
Krupa, George .....Scranton
Krutul, Sabina E.....Olyphant
Karatnich, John J.....Scranton
Koschak, George .....Scranton
Kusy, John J.....Scranton
Kwiatkowski, Joseph H.....Taylor
Lampman, Norman H.....Scranton
Langan, Joseph A.....Scranton
Langan, Thomas V.....Scranton
Langan, William A.....Olyphant
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